Questionnaire

The questionnaire is made-up of ten questions and a comment page. Through the questionnaire, second-home owners were asked to provide information on the location of main residence, influence of decision factors to purchase or build a second-home, second-home ownership, group make-up, second-home visitation in terms of both the number of visits per month and number of days per visit, site visitation at area lakes and reservoirs, summer season visitation and recreation activities at Donner Lake, summer season characteristics of Donner Lake, sensitivity to alternative lake-levels at Donner Lake, expenditures per visit, and annual expenditures on second-home upkeep and repairs. Also through the questionnaire, second-home owners were asked to mention any comments about owning a second-home in the Truckee area. Each of the ten questions and the comment page are presented below.

1.	Where is your main residence?	
	City State Zip Code	
2.	How did the following factors influence your decision to presecond-home in the Truckee area? Please indicate, as a percinfluence each factor had on your decision. Be sure that the 100%.	entage, the level of
	Decision Factors	Level
		of
		Influence
		%
	Buciness / Job / Retirement	_
	Financial / Investment / Tax Purposes	
	Family / Community / Rural Lifestyle	
	Natural Setting / Environment / Climate	
	Winter Recreation / Proximity to Ski Areas	
	Water-Related Summer Recreation / Proximity to Lakes and Reservoirs	
	Other Summer Recreation / Proximity to Golf Courses and Hiking Trials	<u> </u>
	Total	100%
3.	Do you share ownership of your second-home with others not in No Yes	n your family?
4.	How many adults and children are included in a typical visit to	your second-home?
	Typical Number of Adults per Visit Typical Number of Children per Visit	

5.	How many times do you visit your second-home and how many days do you spend
	per visit during each of the following months?

Months	Typical Number of	Typical Number of
	Visits	Days
	per Month	per Visit
January		
February		
March		
April		
May		_
June		
July		
August		_
September		
October		
November		
December		

6. How many times do you visit Lake Tahoe, Donner Lake, Prosser Reservoir, Stampede Reservoir, Boca Reservoir, and Pyramid Lake for recreation during each of the following months?

Months

Typical Number of Visits per Month

	Lake	Donner		Stampede Reservoir		Pyramid
	Tahoe	Lake	Reservoir	Reservoir	Reservoir	Lake
April						
May						
June						
July						
August						
September						
October						
November through March						

7.	The summer recreation	n season is	comprised of	of the months	of June, 3	Iuly, and
	August including Men	orial Day a	ınd Labor Da	ay weekends.	During thi	s season:
	(please answer question	is a, b, and	c)			

a.	How many	days	per	visit	to	your	second-home	do	you	spend	on	recreation	at
	Donner Lak	e?											

Typical Number of Days per Visit____

b. How many hours per day do you spend on the following recreation activities at Donner Lake? Please indicate by marking the appropriate box, the number of hours per day for each recreation activity. Extra space is provided for other activities.

Recreation Activities

Typical Number of Hours per Day

Fishing from Shore	0	1	2	3	4	5	6	7	8	9	10	11	12
Fishing from Boat	0	1	2	3	4	5	6	7	8	9	10	11	12
Water Skiing	0	1	2	3	4	5	6	7	8	9	10	11	12
Pleasure Boating	0	1	2	3	4	5	6	7	8	9	10	11	12
Jet Skiing	0	1	2	3	4	5	6	7	8	9	10	11	12
Swimming	0	l	2	3	4	5	6	7	8	9	10	11	12
Picnicing	0	1	2	3	4	5	6	7	8	9	10	11	12
Hiking	0	1	2	3	4	5	6	7	8	9	10	11	12
Biking	0	1	2	3	4	5	6	7	8	9	10	11	12
	0	1	2	3	4	5	6	7	8	9	10	11	12
	0	1	2	3	4	5	6	7	8	9	10	11	12

c. How do you rate the following characteristics of Donner Lake? Please rate the characteristics as very good, good, satisfactory, poor, or very poor.

Characteristics	Very	Good	Satisfactory	Poor	Very
	Good		·		Poor
Natural Setting and Environment					
Recreation Opportunities					
Lake-Level					
Boat Ramp and Dock Access					
Crowd Level					
Facilities					

8. The summer recreation season is comprised of the months of June, July, and August including Memorial Day and Labor Day weekends. During this season, the lake-level at Donner Lake is regulated between the following five lake-levels: (please answer questions a, b, and c)

Lake-Levels Boat Ramp and Boat Dock Status Lake-Lake Tahoe Donner Donner Lake Lake Public Public Level Elevation Elevation Boat Ramp Boat Ramp Property Owner Boat Docks Drop Status Status Boat Ramp Status Status feet feet 5,936 maximum 0 usable usable usable / safe usable 2 5,935 1 usable usable usable usable / safe 3 5,934 2 usable marginal marginal marginal unusable / unsafe 4 5,933 3 usable unusable unusable 5 4 usable unusable unusable unusable / unsafe 5,932

a. Would the number of visits you make during each month to your second-home change at any of the above lake-levels?

No	(if No, please go to question 9)
Yes	

b. If Yes, please indicate below, how you would change your number of visits per month to your second-home? At each lake-level, circle whether you would have no change, an increase, or a decrease in the number of visits per month to your second-home. Also indicate the corresponding increase or decrease in the number of visits per month.

Lake- Level	Change in Number of Visits per Month										
		Circle One		Increase /							
				Decrease							
1	No Change	Increase	Decrease								
2	No Change	Increase	Decrease								
3	No Change	Increase	Decrease								
4	No Change	Increase	Decrease								
5	No Change	Increase	Decrease								

c. If Yes, how would you then rate the following characteristics of Donner Lake at the lake-level where you first indicated that you would change the number of visits to your second-home? Please rate the following characteristics as very good, good, satisfactory, poor, or very poor.

Characteristics	Very Good	Good	Satisfactory	Poor	Very Poor
Natural Setting and Environment					_
Recreation Opportunities					
Lake-Level					
Boat Ramp and Dock Access					
Crowd Level					
Facilities					

- 9. The summer recreation season is comprised of the months of June, July, and August including Memorial Day and Labor Day weekends. During this season: (please answer question a)
- a. How much do you spend on the following items per visit to your second-home? Please indicate your expenditure on each item and the portion that you spend in the Truckee-Donner Lake area, Reno-Sparks area, Lake Tahoe area, and Other area. Extra space is provided for other items.

Items	Typical Expenditure per Visit	Truckee- Donner Lake Area Portion	Sparks	Агеа	Other Area Portion
	\$	%	%	%	%
Restaurant					
Groceries and Supplies					
Gasoline					
Other Shopping					
Recreation Rental (boats, bikes, horses, etc.)					
Golf Fees					
Other User Fees					
Gaming					
Total					

10. How much do you spend per year on the following upkeep and repair items to your second-home? Extra space is provided for other items.

Items	Typical Expenditure
	per
	Year
	\$
Painting, Sealing, and Staining	
Landscape Maintenance	
House Cleaning	
Driveway Crack Sealing	
Total	

Anything you would like to mention about owning a second-home in the Truckee are	
Please write your comments here: (comments may include: reasons for owning a second beauty and applicable and a	nd
home; natural setting and environment, summer recreation expectations for lake	es
reservoirs, and rivers; water-level concerns; community and rural lifestyle; lo economy; prospects of future growth; etc.)	ca
coolomy, prospects of future growm, etc.)	
	
	
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Response Summary

Questionnaire response, question response, and comment response is given below. There were 100 questionnaires mailed-out and 42 returned for a 42% response. Question response, meaning the number of respondents that answered each question, varied from 42 respondents that answered question 1 to 28 respondents that answered question 9a. This indicates that of the 42 questionnaires returned only 28 respondents completed the questionnaire. The comment response, meaning the number of respondents that made comments, was 29.

Number of Questionnaires Mailed-Out	100
Number of Questionnaires Returned	42
Number of Respondents that Answered Question 1	42
Number of Respondents that Answered Question 2	41
Number of Respondents that Answered Question 3	40
Number of Respondents that Answered Question 4	39
Number of Respondents that Answered Question 5	38
Number of Respondents that Answered Question 6	38
Number of Respondents that Answered Question 7a	37
Number of Respondents that Answered Question 7b	36
Number of Respondents that Answered Question 7c	31
Number of Respondents that Answered Question 8a	38
Number of Respondents that Answered Question 8b	3
Number of Respondents that Answered Question 8c	3
Number of Respondents that Answered Question 9a	28
Number of Respondents that Answered Question 10	30
Number of Respondents that Made Comments	29

Descriptive Statistics

The descriptive statistics of the data are presented below with an explanation of their interpretation. The descriptive statistics include the location of main residence, decision factor influence to purchase or build a second-home, second-home ownership, group make-up, annual second-home visitation, site visitation, annual site visitation, summer season Donner Lake visitation, summer season Donner Lake activities, summer season Donner Lake activity hours, ranking of summer season Donner Lake characteristics, summer season Donner Lake alternative lake-level sensitivity, summer season visitation expenditures, and annual second-home upkeep and repair expenditures.

Location of Main Residence

The highest number of respondents are respondents with a main residence in the San Francisco Bay area.

Table 7.3-1 provides the number of respondents with a main residence in the Sacramento area, the San Francisco Bay area, and Other areas. There are 8 respondents with a main residence in the Sacramento area, 29 respondents with a main residence in the San Francisco Bay area, and 5 respondents with a main residence in Other areas. Other areas being areas of California and out of state.

Table 7.3-1. Location of Main Residence.

Number of Respondents with a Main Residence in the Sacremento Area Number of Respondents with a Main Residence in the San Francisco Bay Area Number of Respondents with a Main Residence in Other Areas	
Total Number of Respondents	

Decision Factor Influence to Purchase or Build a Second-Home

Winter recreation/proximity to ski areas is the decision factor that has the highest level of influence on the decision to build or purchase a second-home in the Truckee area.

Decision factor influence to purchase or build a second-home by respondents is presented in Table 7.3-2. Decision factors include business/job/retirement. financial/investment/tax purposes, family/community/rural lifestyle, setting/environment/climate, winter recreation/proximity to ski areas, water-related summer recreation/proximity to lakes and reservoirs. and other summer recreation/proximity to golf courses and hiking trails. An average level of influence, as a percentage, is given for each decision factor.

The average level of influence is 7% for business/job/retirement, 11% for financial/investment/tax purposes, 7% for family/community/rural lifestyle, 21% for natural setting/environment/climate, 28% for winter recreation/proximity to ski areas, 13% for water-related summer recreation/proximity to lakes and reservoirs, and 13% for other summer recreation/proximity to golf courses and hiking trails. Together the decision factor influence equals 100%.

Table 7.3-2. Decision Factor Influence to Purchase or Build a Second-Home.

Average Level of Influence for Business / Job / Retirement by Respondents	7.14%
Average Level of Influence for Financial / Investment / Tex Purposes by Respondents	10.52%
Average Level of Influence for Family / Community / Rural Lifestyle by Respondents	6.55%
Average Level of Influence for Netural Setting / Environment / Climate by Respondents	21.23%
Average Level of Influence for Winter Recreation / Proximity to Ski Areas by Respondents	27.68% ₹
Average Level of Influence for Water-Related Summer Recreation / Proximity to Lakes and Reservoirs by Respondents	13.49%
Average Level of Influence for Other Summer Recreation / Proximity to Golf Courses and Hiking Trails by Respondents	13.39%

Second-Home Ownership

The highest number of respondents are respondents that do not share ownership of second-home.

Table 7.3-3 provides the number of respondents that share ownership of second-home with others and the number of respondents that do not share ownership of second-home. Of 40 respondents, only one respondent did indicate that they share ownership of second-home with others.

Table 7.3-3. Second-Home Ownership.

Number of Respondents that Share Ownership of Second-Home with Others Number of Respondents that do not Share Ownership of Second-Home	3
Total Number of Respondents	

Group Make-Up

Average group size of respondents is 4.41 persons. Average number of adults per group is 2.69 persons and average number of children per group is 1.72 persons.

Table 7.3-4 provides group make-up of respondents.

Table 7.3-4. Group Make-Up.

Average Group Size per Visit of Respondents	4.41
Average Number of Adults in Group of Respondents	2.69
Average Number of Children in Group of Respondents	1.72

Annual Second-Home Visitation

Second-home visitation by respondents occurs in all months of the year. The greatest visitation, in terms of both the number of visits by respondents and the number of days per visit by respondents, is in the winter months of December, January, and February. This is followed by visitation in the summer months of June, July, and August.

The average number of visits per month by respondents are presented in Table 7.3-5. Average number of visits by respondents is 1.84 in January, 1.74 in February, 1.66 in March, 1.47 in April, 1.53 in May, 1.67 in June, 1.70 in July, 1.75 in August, 1.62 in September, 1.28 in October, 1.50 in November, and 1.75 in December. The annual or total average number of visits by respondents is 19.51.

The average number of days per visit per month by respondents are also presented in Table 7.3-5. Average number of days per visit by respondents is 3.24 in January, 3.55 in February, 3.14 in March, 3.16 in April, 3.29 in May, 3.10 in June, 3.61 in July, 4.62 in August, 3.40 in September, 2.89 in October, 3.68 in November, and 5.24 in December.

Table 7.3-5. Annual Second-Home Visitation.

Average Number of Visits by Respondents during January	1.84
Average Number of Visits by Respondents during February	1.74
Average Number of Visits by Respondents during March	1.66
Average Number of Visits by Respondents during April	1.47
Average Number of Visits by Respondents during May	1.53
Average Number of Visits by Respondents during June	1.67
Average Number of Visits by Respondents during July	1.70
Average Number of Visits by Respondents during August	1.75
Average Number of Visits by Respondents during September	1.62
Average Number of Visits by Respondents during October	1.28
Average Number of Visits by Respondents during November	1.50
Average Number of Visits by Respondents during December	1.75
Friday (Manual of Frida by Respondent dating December	1.73
Total Average Number of Visits by Respondents	19.51
Average Number of Days per Visit by Respondents during January	3.24
Average Nursber of Days per Visit by Respondents during February	3.55
Average Number of Days per Visit by Respondents during March	3.14
Average Number of Days per Visit by Respondents during April	3.16
Average Number of Days per Visit by Respondents during May	3.29
Average Number of Days per Visit by Respondents during June	3.10
Average Number of Days per Visit by Respondents during July	3.61
Average Number of Days per Visit by Respondents during August	4.62
Average Number of Days per Visit by Respondents during September	3.40
Average Number of Days per Visit by Respondents during October	2.89
Average Number of Days per Visit by Respondents during November	3.68
Average Number of Days per Visit by Respondents during December	5.24

Site Visitation

The overall greatest site visitation of respondents occurs at Donner Lake.

The site visitation of respondents is presented in Table 7.3-6. Study area sites include Lake Tahoe, Donner Lake, Prosser Reservoir, Stampede Reservoir, and Boca Reservoir.

Of the 38 respondents, 63% indicate they visit Lake Tahoe an average of 5 visits during the year, 89% indicate they visit Donner Lake an average of 10 visits during the year, 21% indicate they visit Prosser Reservoir an average of 3 visits during the year, 13% indicate they visit Stampede Reservoir an average of 3 visits during the year, and 16% indicate they visit Boca Reservoir an average of 6 visits during the year.

None of the respondents indicate they visit Pyramid Lake. Pyramid Lake was also listed as a study area site in the question.

Table 7.3-6. Site Visitation.

	Area	Tahoe	Lake	Reservoir	Reservoir	Reservoir
Number of Respondents	38	24	34		5	6
Percentage of Respondents		63.16%	89.47%	21.05%	13.16%	15.79%
Number of Visits by Respondents		128.90	352.50	26.00	15.00	34.00
Average Number of Visits by Respondents		5.37	10.37	3.25	3.00	5.67

Annual Site Visitation

The annual site visitation of respondents follow a similar pattern. This pattern shows that during the year, visitation to a site will begin in April and steadily increase throughout May, June, July, and August and then decrease sharply during September and October to end at a very low visitation during the Other months.

The annual site visitation of respondents is shown in Table 7.3-7. Again, study area sites include Lake Tahoe, Donner Lake, Prosser Reservoir, Stampede Reservoir, and Boca Reservoir.

The pattern of annual visitation for a site is based on the number of respondents that indicate they visit the study area and visit the site in a given month. To clarify this, for Donner Lake, 9 out of 17 respondents indicate they visit in April, 13 out of 29 respondents indicate they visit in May, 20 out of 41 respondents indicate they visit in June, 28 out of 55 respondents indicate they visit in July, 29 out of 63 respondents indicate they visit in August, 19 out of 37 respondents indicate they visit in September, 6 out of 14 respondents indicate they visit in October, and 6 out of 14 respondents indicate they visit in Other months.

These numbers are then divided by their summation and presented as a percentage of visitation during the given month. Of the total annual visitation at Donner Lake, 7% is during April, 10% is during May, 15% is during June, 21% is during July, 22% is during August, 15% is during September, 5% is during October, and 5% is during Other months.

The percentages taken together for all the months show the pattern of annual site visitation.

A similar interpretation can be made for the other sites.

Table 7.3-7. Annual Site Visitation.

	Study Area	Lake Tahoo	Donner Leke	Prosecr Reservoir	Stampede Reservoir	Boca Reservoir
Number of Respondents that Visit during April	17	5	9	1	0	2
Number of Respondents that Visit during May	29	10	13	2	1	3
Number of Respondents that Visit during June	41	13	20	2	3	3
Number of Respondents that Visit during July	55	16	28	5	2	4
Number of Respondents that Visit during August	63	21	29	5	4	4
Number of Respondents that Visit during September	37	13	19	2	0	3
Number of Respondents that Visit during October	14	7	6	0	0	1
Number of Respondents that Visit during Other	14		6	0	0	0
Total Number of Respondents		93	130	17	10	20
Percentage of Visitation during April		5.38%	6.92%	5.88%	0.00%	10.00%
Percentage of Visitation during May		10.75%	10.00%	11.76%	10.00%	15.00%
Percentage of Visitation during June		13.98%	15.38%	11.76%	30.00%	15.00%
Percentage of Visitation during July		17.20%	21.54%	29.41%	20.00%	20.00%
Percentage of Visitation during August		22.58%	22.31%	29.41%	40.00%	20.00%
Percentage of Visitation during September		13.98%	14.62%	11.76%	0.00%	15.00%
Percentage of Visitation during October		7.53%	4.62%	0.00%	0.00%	5.00%
Percentage of Visitation during Other		8.60%	4.62%	0.00%	0.00%	0.00%

Summer Season Donner Lake Visitation

The number of respondents that visit Donner Lake during the summer season months of June, July, and August is 32. This number of respondents is out of 37 respondents that visit their second-home during the summer season months. Average number of days per visit at Donner Lake by these 32 respondents during the summer season months is 2.42 days.

Table 7.3-8 presents the summer season Donner Lake visitation.

Table 7.3-8. Summer Season Donner Lake Visitation.

Number of Respondents Average Number of Days per Visit by Respondents 32 2.42

Summer Season Donner Lake Activities

Respondents that visit Donner Lake during the summer season participate in picnicking, hiking, swimming, fishing and biking activities.

Summer season Donner Lake activities of respondents are shown in Table 7.3-9. The activities include fishing from shore, fishing from a boat, water skiing, boating, jet skiing, swimming, picnicking, hiking, biking and other activities.

Of 36 respondents, 43% indicate fishing from shore, 23% indicate fishing from a boat, 17% indicate water skiing, 33% indicate boating, 7% indicate jet skiing, 57% indicate swimming, 70% indicate picnicking, 70% indicate hiking, and 43% indicate biking.

Table 7.3-9. Summer Season Donner Lake Activities.

Number of Respondents Fishing	13
Number of Respondents Fishing from Bost	7
Number of Respondents Water Skiing	5
Number of Respondents Bosting	10
Number of Respondents Jet Skiing	2
Number of Respondents Swimming	17
Number of Respondents Pionicking	21
Number of Respondents Hiking	21
Number of Respondents Biking	13
Number of Respondents Other	0
Percentage of Respondents Fishing	43.33%
Percentage of Respondents Fishing from Bost	23.33%
Percentage of Respondents Water Skiing	16.67%
Percentage of Respondents Bosting	33.33%
Percentage of Respondents let Skiing	6.67%
Percentage of Respondents Swimming	56.67%
Percentage of Respondents Picnicking	70.00%
Percentage of Respondents Hiking	70.00%
Percentage of Respondents Biking	43.33%
Percentage of Respondents Other	0.00%

Summer Season Donner Lake Activity Hours

Respondents that visit Donner Lake during the summer season spend an average of 6.62 hours per day on activities.

Summer season Donner Lake activity hours per day of respondents are provided in Table 7.3-10. Again the activities include fishing from shore, fishing from a boat, water skiing, boating, jet skiing, swimming, picnicking, hiking, biking and other activities.

Respondents indicate they spend an average of 0.74 hours per day fishing from shore, 0.52 hours per day fishing from a boat, 0.32 hours per day water skiing, 0.74 hours per day boating, 0.23 hours per day jet skiing, 1.00 hour per day swimming, 1.23 hours per day picnicking, 1.16 hours per day hiking, 0.68 hours per day biking, and 0.00 hours per day on other activities.

Table 7.3-10. Summer Season Donner Lake Activity Hours.

Average Activity Hours per Day sport Fishing by Respondents	0.74
Average Activity Hours per Day sport Fishing from Bout by Respondents	0.52
Average Activity Hours per Day sport Water Skiing by Respondents	0.32
Average Activity Hours per Duy spent Bosting by Respondents	0.74
Average Activity Hours per Day sport Jet Skiing by Respondents	0.23
Average Activity Hours per Day spent Swimming by Respondents	1.00
Average Activity Hours per Day spent Picnicking by Respondents	1.23
Average Activity Hours per Day spent Hiking by Respondents	1.16
Average Activity Hours per Day spent Biking by Respondents	0.68
Average Activity Hours per Day spent on Other activities by Respondents	0.00
Total Activity Hours per Day by Respondents	6.62

Ranking of Summer Season Donner Lake Characteristics

Respondents that visit Donner Lake during the summer season rank site characteristics as very good to satisfactory.

Ranking of summer season Donner Lake Characteristics by respondents is shown in Table 7.3-11. Site characteristics include natural setting and environment, recreation opportunities, lake-level, boat ramp and dock access, crowd level, and facilities. The ranking of each can range from 1 being very good to 5 being very poor.

Respondents rank natural setting and environment as very good, recreation opportunities as good, lake-level as satisfactory, boat ramp and dock access as good, crowd level as satisfactory, and facilities as good.

Table 7.3-11. Ranking of Summer Season Donner Lake Characteristics.

Average Value of Natural Setting and Environment by Respondents	1.24
Average Value of Recreation Opportunities by Respondents	1.78
Average Value of Lake-Level by Respondents	2.57
Average Value of Boat Ramp and Dock Access by Respondents	2.37
Average Value of Crowd Level by Respondents	2.51
Average Value of Facilities by Respondents	2.34

Ranking: 1=Very Good; 2=Good; 3=Satisfactory; 4=Poor, and, 5=Very Poor.

Summer Season Donner Lake Alternative Lake Level Sensitivity

The number of respondents that indicate a change in the number of second-home visits at alternative lake-levels for Donner Lake during the summer season is 7. The number of respondents that indicate no change in the number of second-home visits at alternative lake levels for Donner Lake during the summer season is 30.

Table 7.3-12 provides the summer season Donner Lake alternative lake-level sensitivity.

Table 7.3-12. Summer Season Donner Lake Alternative Lake-Level Sensitivity.

Number of Respondents that indicated a Change in the Number of Second-Home Visits at Atternative Lake-Lavels	7
Number of Respondents that indicated No Change in the Number of Second-Home Visits at Alternative Lake-Levels	30
Total Number of Respondents	37

Summer Season Visitation Expenditures

Visitation expenditures by respondents during the summer season are highest on restaurant and groceries.

Summer season visitation expenditures by respondents are presented in Table 7.3-13. Average expenditure per visit, average expenditure per visit per day, and average expenditure per visit per day per person are given for restaurant, groceries, gasoline, other shopping, recreation rental, golf fees, other user fees, gaming, and other.

Respondents indicate an average total expenditure per visit of \$343.26, an average total expenditure per visit per day of \$92.73, and an average total expenditure per visit per day per person of \$26.09.

Table 7.3-13. Summer Season Visitation Expenditures.

Average Expenditure per Visit on Restaurant by Respondents	94.38
Average Expenditure per Visit on Groceries by Respondents	88.89
Average Expenditure per Visit on Gesoline by Respondents	28.75
Average Expenditure per Visit on Other Shopping by Respondents	32.32
Average Expenditure per Visit on Recreation Rental by Respondents	30.89
Average Expenditure per Visit on Golf Fees by Respondents	33.3
Average Expenditure per Visit on Other User Fees by Respondents	2.59
Average Expenditure per Visit on Geming by Respondents	28.57
Average Expenditure per Visit on Other by Respondents	3.57
Average Total Expenditure per Visit by Respondents	\$343.26
Average Expenditure per Visit per Day on Restaurant by Respondents	26.95
Average Expenditure per Visit per Day on Groceries by Respondents	23.25
Average Expenditure per Visit per Day on Gasoline by Respondents	7.81
Average Expenditure per Visit per Day on Other Shopping by Respondents	9.38
Average Expenditure per Visit per Day on Recreation Rental by Respondents	9.07
Average Expenditure per Visit per Day on Golf Fees by Respondents	8.02
Average Expenditure per Visit per Day on Other User Fees by Respondents	0.70
Average Expenditure per Visit per Day on Gaming by Respondents	6.66
Average Expenditure per Visit per Day on Other by Respondents	0.89
Average Total Expenditure per Visit per Day by Respondents	\$92.73
Average Expenditure per Visit per Day per Person on Rostaurant by Respondents	7.95
Average Expenditure per Visit per Day per Person on Groceries by Respondents	6.73
Average Expenditure per Visit per Day per Person on Gesoline by Respondents	2.33
Average Expenditure per Visit per Day per Person on Other Shopping by Respondents	2.61
Average Expenditure per Visit per Day per Person on Recreation Rental by Respondents	2.29
Average Expenditure per Visit per Day per Person on Golf Foes by Respondents	2.20
Average Expenditure per Visit per Day per Person on Other User Fees by Respondents	0.15
Average Expenditure per Visit per Day per Person on Gaming by Respondents	1.74
Average Expenditure per Visit per Day per Person on Other by Respondents	0.09
Average Total Expenditure per Visit per Day per Person by Respondents	\$26.09

Annual Second-Home Upkeep and Repair Expenditures

The average annual total expenditure by respondents on second-home upkeep and repair is \$1,201.67.

Annual second-home upkeep and repair expenditures by respondents are provided in Table 7.3-14. Expenditures are average annual expenditures on painting, sealing, staining, landscape maintenance, house cleaning, driveway crack sealing, and other.

Respondents indicate an average annual expenditure on painting, sealing, and staining of \$507.50, on landscape maintenance of \$158.33, on house cleaning of \$271.00, on driveway crack sealing of \$110.67, and on other upkeep of \$154.17. Again, the average annual total expenditure is \$1,201.67.

Table 7.3-14. Annual Second-Home Upkeep and Repair Expenditures.

Average Average Total Expenditure by Respondents	\$1 201 67
Average Annual Expenditure on Other by Respondents	154.17
Average Annual Expenditure on Drivewey Creck Scaling by Respondents	110.67
Average Annual Expenditure on House Cleaning by Respondents	271.00
Average Annual Expenditure on Landscape Maintenance by Respondents	158.33
Average Annual Expenditure on Painting, Sealing, and Staining by Respondents	507.50

Comments

Excerpts taken from a few comments made by respondents on owning a second-home in the Truckee area are listed below.

- 1. "A good vacation area near the Bay Area, Family oriented climate in Tahoe-Donner"
- 2. "Recreation surroundings are very nice water level is a concern and it is too bad that so much is taken from it each year for the valley..."
- 3. "We like the Tahoe Donner and Truckee area very much. Our main concern is over development...We are concerned that Tahoe Donner will get too crowded. ...Re: The Tahoe Donner Marina the swimming area needs to be improved to make wading into the water easier for children...sand needs to be added in the shallow area so children are not walking on rocks... pool areas too crowded."
- 4. "...Tahoe Donner is a beautiful setting for a second home the area is perfect year round...We like the small community lifestyle...We'd like to see the Tahoe Donner Area remain beautiful, scenic and that growth be controlled."
- 5. "Great place to get away. Love the natural mountain environment and the town of Truckee."
- 6. "We love our home. However...Tahoe Donner ski area would be more appealing if it were expanded...Another golf course perhaps not so difficult would be a big plus...We would like to see an expanded Trout Creek facility..."
- 7. "I don't use Donner Lake because of the crowds and noise...My decision to purchase a second home is based mainly on access to streams and rivers in the summer, winter sports in the winter...The total lack of water conservation in Reno/Sparks and the over use of water in Carson Valley (and related areas) on agri-business is my #1 concern for the area."
- 8. "I would like to see growth slowed in the region to minimize the impact on the environment...If it gets too crowded in future years I will have to sell and relocate."

- 9. "The Truckee area is as beautiful of an area as any I have seen...a rare mix...amenities available and still having a feeling of being by an unspoiled mountain lake...it is of utmost importance to preserve this balance from an economic viewpoint as well as an ecological one. I answered "NO" to your question #8 but I do feel that the lake is much more enjoyable both aesthetically as well as from a useful point of view, when lake levels are kept as high as possible. Please do whatever is possible to keep these levels high. Thank you"
- 10. "Would prefer No more development either commercial or residential as too many people destroy the environment's beauty that is inherent in this setting"

7.4. Survey of the Vacation-Home Renters

A survey of vacation-home renters for the Truckee area was done during February 1995. The purpose of the survey was to first obtain an overall picture of the summer season visitation and recreation activities of vacation-home renters, second, quantify the amount of expenditures that vacation-home renters make to the local economy, and third, identify how vacation-home visitation would change during the summer season in relation to alternative lake-levels at Donner Lake. To achieve this purpose, information was collected from vacation-home renters using a questionnaire. Questionnaires were mailed-out to vacation-home renters and when returned the data was compiled and analyzed to develop a set of descriptive statistics. The cover letter to the questionnaire, the questionnaire, a response summary, descriptive statistics of the data, and comments are presented below.

Cover Letter

February 15, 1995

Dear Vacation-Home Renter:

The Town of Truckee requests your participation in a survey. This survey is being conducted by the University of Nevada, Reno. Information collected will be used in assessing the economic and recreation issues associated with lakes and reservoirs in the Truckee area. This information will help local, state, and federal officials make informed decisions on how best to manage the lakes, reservoirs, and rivers in the Truckee River Basin.

The enclosed questionnaire takes less than 15 minutes to complete. A limited number of vacation-home renters are receiving this questionnaire, so your response means a lot. Please complete the questionnaire as best you can and then mail the questionnaire in the stamped pre-addressed envelope.

The tabulated results of this survey will be made available for your review at the Truckee Town Hall. The Town of Truckee appreciates your participation in this survey and thanks you for your time.

PLEASE RETURN YOUR COMPLETED QUESTIONNAIRE BEFORE MARCH 1ST.

Sincerely,

Embree B. (Breeze) Cross Mayor

Questionnaire

The questionnaire is made-up of eight questions and a comment page. Through the questionnaire, vacation-home renters were asked to provide information on the location of main residence, influence of decision factors to rent a vacation-home, group make-up, vacation-home visitation in terms of both the number of visits per month and number of days per visit, site visitation at area lakes and reservoirs, summer season visitation and recreation activities at Donner Lake, summer season characteristics of Donner Lake, sensitivity to alternative lake-levels at Donner Lake, expenditures per visit, and vacation-home rent. Also through the questionnaire, vacation-home renters were asked to mention any comments about renting a vacation-home in the Truckee area. Each of the eight questions and the comment page are presented below.

1.	Where is your main residence?	
	City	
	State	
	Zip Code	
2.	How did the following factors influence your decision to rent the Truckee area? Please indicate, as a percentage, the leve factor had on your decision. Be sure that the total is equal to 1	el of influence each
	Decision Factors	Level
	Deeskal Lactors	of
		Influence
		midence %
	Family / Community / Rural Lifestyle	
	Natural Setting / Environment / Climate	
	Winter Recreation / Proximity to Ski Areas	
	Water-Related Summer Recreation / Proximity to Lakes and Reservoirs	
	Other Summer Recreation / Proximity to Golf Courses and Hiking Trials	
	Total	100%
3.	Total How many adults and children are included in a typical visit to Typical Number of Adults per Visit Typical Number of Children per Visit	

4.	How many times do you visit the Truckee area and how many days do you spend
	per visit during each of the following months?

Months	Typical	Typical
	Number	Number
	of	of
	Visits	Days
	per	per
	Month	Visit
January		
February	-	
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

5. How many times do you visit Lake Tahoe, Donner Lake, Prosser Reservoir, Stampede Reservoir, Boca Reservoir, and Pyramid Lake for recreation during each of the following months?

Months

Typical Number of Visits per Month

	Lake	Donner	Prosser	Stampede	Boca	Pyramid
	Tahoe	Lake	Reservoir	Reservoir	Reservoir	Lake
April						
May						
June						
July						
August						
September						
October						
November through March	·					

6.	The summer recreation season is comprised of the months of June, July, and
	August including Memorial Day and Labor Day weekends. During this season
	(please answer questions a, b, and c)

a.	How many days per visit to the Truckee area do you spend on recreation at Donner
	Lake?

Typical Number	of Days per	Visit
----------------	-------------	-------

b. How many hours per day do you spend on the following recreation activities at Donner Lake? Please indicate by marking the appropriate box, the number of hours per day for each recreation activity. Extra space is provided for other activities.

Recreation Activities

Typical Number of Hours per Day

Fishing from Shore	0	1	2	3	4	5	6	7	8	9	10	11	12
Fishing from Boat	0	1	2	3	4	5	6	7	8	9	10	11	12
Water Skiing	0	1	2	3	4	5	6	7	8	9	10	11	12
Pleasure Boating	0	1	2	3	4	5	6	7	8	9	10	11	12
Jet Skiing	0	1	2	3	4	5 .	6	7	8	9	10	11	12
Swimming	0	1	2	3	4	5	6	7	8	9	10	11	12
Picnicing	0	1	2	3	4	5	6	7	8	9	10	11	12
Hiking	0	1	2	3	4	5	6	7	8	9	10	11	12
Biking	0	1	2	3	4	5	6	7	8	9	10	11	12
	0	1	2	3	4	5	6	7	8	9	10	11	12
	0	1	2	3	4	5	6	7	8	9	10	11	12

c. How do you rate the following characteristics of Donner Lake? Please rate the characteristics as very good, good, satisfactory, poor, or very poor.

Characteristics	Very	Good	Satisfactory	Poor	Very
	Good				Poor
Natural Setting and Environment					
Recreation Opportunities					
Lake-Level					
Boat Ramp and Dock Access					
Crowd Level					
Facilities					

7. The summer recreation season is comprised of the months of June, July, and August including Memorial Day and Labor Day weekends. During this season, the lake-level at Donner Lake is regulated between the following five lake-levels: (please answer questions a, b, and c)

Lake-Levels Boat Ramp and Boat Dock Status Lake-Lake Lake Public Tahoe Donner Donner Lake Public Level Elevation Elevation Boat Ramp Boat Ramp Property Owner **Boat Docks** Status Status Boat Ramp Status Drop Status feet feet 5,936 maximum 0 usable usable usable usable / safe 2 5,935 1 usable usable usable usable / safe 3 2 5,934 usable marginal marginal marginal 4 5,933 3 usable unusable unusable unusable / unsafe 5 usable unusable unusable unusable / unsafe 5,932 4

a. Would the number of visits you make during each month to the Truckee area change at any of the above lake-levels?

No	(if No,	please	go to	question	8)
Yes		_	-	-	·

b. If Yes, please indicate below, how you would change your number of visits per month to the Truckee area? At each lake-level, circle whether you would have no change, an increase, or a decrease in the number of visits per month. Also indicate the corresponding increase or decrease in the number of visits per month.

Lake- Level	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.1.						
		Circle One		Increase /			
				Decrease			
1	No Change	Increase	Decrease				
2	No Change	Increase	Decrease				
3	No Change	Increase	Decrease				
4	No Change	Increase	Decrease				
5	No Change	Increase	Decrease				

c. If Yes, how would you then rate the following characteristics of Donner Lake at the lake-level where you first indicated that you would change the number of visits to the Truckee area? Please rate the following characteristics as very good, good, satisfactory, poor, or very poor.

Characteristics	Very Good	Good	Satisfactory	Poor	Very Poor
Natural Setting and Environment					
Recreation Opportunities	_				
Lake-Level					
Boat Ramp and Dock Access					
Crowd Level					
Facilities					

- 8. The summer recreation season is comprised of the months of June, July, and August including Memorial Day and Labor Day weekends. During this season: (please answer question a)
- a. How much do you spend on the following items per visit to the Truckee area? Please indicate your expenditure on each item and the portion that you spend in the Truckee-Donner Lake area, Reno-Sparks area, Lake Tahoe area, and Other area. Extra space is provided for other items.

Items	Typical Expenditure per Visit	Truckee- Donner Lake Area Portion	Sparks	Tahoe Area	Other Area Portion
	<u> </u>	%	%	<u>%</u>	%
Restaurant					
Groceries and Supplies					
Gasoline	_				
Other Shopping					
Recreation Rental (boats, bikes, horses, etc.)					
Golf Fees					
Other User Fees					
Garning					
			·		
Total					

b.	How much do you spend per visit to rent a vacation-home in the Truckee area?
	Typical Vacation-Home Rent Expenditure per Visit \$

Anything you would like to mention about renting a vacation-home in the Truckee a Please write your comments here: (comments may include: reasons for renting vacation-home; natural setting and environment, summer recreation expectations lakes, reservoirs, and rivers; water-level concerns; community and rural lifestyle; levels are community are community and rural lifestyle; levels are community and rural lifestyle; levels are community are community.	ng a for
economy; prospects of future growth; etc.)	Ocai
	—
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	<u> </u>
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	_
	_
<u> </u>	—
	<u> </u>
	<u> </u>

Response Summary

Questionnaire response, question response, and comment response is given below. There were 100 questionnaires mailed-out and 21 returned for a 21% response. Question response, meaning the number of respondents that answered each question, varied from 21 respondents that answered question 1 to 8 respondents that answered question 8a. This indicates that of the 21 questionnaires returned only 8 respondents completed the questionnaire. The comment response, meaning the number of respondents that made comments, was 15.

Questionnaires Mailed-Out	100
Questionnaires Returned	21
Number of Respondents that Answered Question 1	21
Number of Respondents that Answered Question 2	21
Number of Respondents that Answered Question 3	20
Number of Respondents that Answered Question 4	20
Number of Respondents that Answered Question 5	20
Number of Respondents that Answered Question 6a	20
Number of Respondents that Answered Question 6b	8
Number of Respondents that Answered Question 6c	8
Number of Respondents that Answered Question 7a	19
Number of Respondents that Answered Question 7b	0
Number of Respondents that Answered Question 7c	0
Number of Respondents that Answered Question 8a	8
Number of Respondents that Answered Question 8b	8
Number of Respondents that Made Comments	15

Descriptive Statistics

The descriptive statistics of the data are presented below with an explanation of their interpretation. The descriptive statistics include the location of main residence, decision factor influence to rent a vacation home, group make-up, annual vacation-home visitation, site visitation, annual site visitation, summer season Donner Lake visitation, summer season Donner Lake activities, summer season Donner Lake activity hours, ranking of summer season Donner Lake characteristics, summer season Donner Lake alternative lake-level sensitivity, summer season visitation expenditures, and rent expenditures.

Location of Main Residence

The highest number of respondents are respondents with a main residence in the San Francisco Bay area.

Table 7.4-1 provides the number of respondents with a main residence in the Sacramento area, the San Francisco Bay area, and Other areas. There are 4 respondents with a main residence in the Sacramento area, 14 respondents with a main residence in the San Francisco Bay area, and 3 respondents with a main residence in Other areas. Other areas being areas of California and out of state.

Table 7.4-1. Location of Main Residence.

Number of Respondents with a Main Residence in the Secremento Area	
Number of Respondents with a Main Residence in the San Francisco Bay Area	1
Number of Respondents with a Main Residence in Other Areas	
T. 137 1 28 1 .	
Total Number of Respondents	- 2

Decision Factor Influence to Rent a Vacation-Home

Winter recreation/proximity to ski areas is the decision factor that has the highest level of influence on the decision to rent a vacation-home in the Truckee area.

Decision factor influence to rent a vacation-home by respondents is presented in Table 7.4-2. Decision factors include family/community/rural lifestyle, natural setting/environment/climate, winter recreation/proximity to ski areas, water-related summer recreation/proximity to lakes and reservoirs, and other summer recreation/proximity to golf courses and hiking trails. An average level of influence, as a percentage, is given for each decision factor.

The average level of influence is 12% for family/community/rural lifestyle, 25% for natural setting/environment/climate, 52% for winter recreation/proximity to ski areas, 7% for water-related summer recreation/proximity to lakes and reservoirs, and 4% for other summer recreation/proximity to golf courses and hiking trails. Together the decision factor influence equals 100%.

Table 7.4-2. Decision Factor Influence to Rent a Vacation-Home.

12.30%
25.30%
51.90%
6.35%
4.15%
100.00%

Group Make-Up

Average group size of respondents is 6.15 persons. Average number of adults per group is 4.85 persons and average number of children per group is 1.30 persons.

Table 7.4-3 provides group make-up of respondents.

Table 7.4-3. Group Make-Up.

Average Group Size per Visit of Respondents	6.15
Average Number of Adults in Group of Respondents	4.85
Average Number of Children in Group of Respondents	1.30

Annual Vacation-Home Visitation

Vacation-home visitation by respondents occurs in all months of the year. The greatest number of visits by respondents is in the months of December, January, February, March, and April. This is followed by visits in the months of July and August. The greatest number of days per visit by respondents, however, is in the months of July and August. This is followed by days per visit in the months of December, January, February, March, and April.

The average number of visits per month by respondents are presented in Table 7.4-4. Average number of visits by respondents is 1.05 in January, 1.20 in February, 0.73 in March, 0.43 in April, 0.05 in May, 0.10 in June, 0.30 in July, 0.30 in August, 0.00 in September, 0.05 in October, 0.05 in November, and 0.65 in December. The annual or total average number of visits by respondents is 4.91.

The average number of days per visit per month by respondents are also presented in Table 7.4-4. Average number of days per visit by respondents is 2.57 in January, 2.63 in February, 2.97 in March, 2.41 in April, 3.00 in May, 2.25 in June, 4.42 in July, 4.08 in August, 0.00 in September, 1.00 in October, 2.00 in November, and 2.35 in December.

Table 7.4-4. Annual Vacation-Home Visitation.

A	1.00
Average Number of Visits by Respondents during Jenuary	1.05
Average Number of Visits by Respondents during February	1.20
Average Number of Visits by Respondents during March	0.73
Average Number of Visits by Respondents during April	0.43
Average Number of Visits by Respondents during May	0.05
Average Number of Visits by Respondents during June	0.10
Average Number of Visita by Respondents during July	0.30
Average Number of Visits by Respondents during August	0.30
Average Number of Visits by Respondents during September	0.00
Average Number of Visits by Respondents during October	0.05
Average Number of Visits by Respondents during November	0.05
Average Number of Visits by Respondents during December	0.65
Total Average Number of Visits by Respondents	4.91
Average Number of Days per Visit by Respondents during January	2.57
Average Number of Days per Visit by Respondents during February	2.63
Average Number of Days per Visit by Respondents during March	2.97
Average Number of Duys per Visit by Respondents during April	2.41
Average Number of Days per Visit by Respondents during May	3.00
Average Number of Days per Visit by Respondents during June	2.25
Average Number of Days per Visit by Respondents during July	4.42
Average Number of Days per Visit by Respondents during August	4.08
Average Number of Days per Visit by Respondents during September	0.00
Average Number of Days per Visit by Respondents during October	1.00
Average Number of Days per Visit by Respondents during November	2.00
Average Number of Days per Visit by Respondents during December	2.35
tradific trainer or relater area of tradegraphs are all posterior	4.33

Site Visitation

The overall greatest site visitation of respondents occurs at Donner Lake.

The site visitation of respondents is presented in Table 7.4-5. Study area sites include Lake Tahoe, Donner Lake, Prosser Reservoir, Stampede Reservoir, and Boca Reservoir.

Of the 20 respondents, 50% indicate they visit Lake Tahoe an average of 3 visits during the year, 45% indicate they visit Donner Lake an average of 3 visits during the year, 5% indicate they visit Prosser Reservoir an average of 1 visit during the year, 0% indicate they visit Stampede Reservoir an average of 0 visits during the year, and 10% indicate they visit Boca Reservoir an average of 3 visits during the year.

None of the respondents indicate they visit Pyramid Lake. Pyramid Lake was also listed as a study area site in the question.

Table 7.4-5. Site Visitation.

	Area Area	Tahoe	Lake .	Reservoir	Reservoir	Reservoir
Number of Respondents Percentage of Respondents	20	10 50.00%	9 45.00%	1 5.00%	0 0.00%	2 10.00%
Number of Visits by Respondents Average Number of Visits by Respondents		26.00 2.60	27.50 3.06	1.00 1.00	0.00 0.00	6.00 3.00

Annual Site Visitation

The annual site visitation of respondents follow a similar pattern. This pattern shows that visitation at a site is the highest in June, July, and August.

The annual site visitation of respondents is shown in Table 7.4-6 Again, study area sites include Lake Tahoe, Donner Lake, Prosser Reservoir, Stampede Reservoir, and Boca Reservoir.

The pattern of annual visitation for a site is based on the number of respondents that indicate they visit the study area and visit the site in a given month. To clarify this, for Donner Lake, 2 out of 2 respondents indicate they visit in April, 1 out of 2 respondents indicate they visit in May, 1 out of 6 respondents indicate they visit in June, 4 out of 9 respondents indicate they visit in July, 4 out of 10 respondents indicate they visit in August, 0 out of 2 respondents indicate they visit in September, 0 out of 0 respondents indicate they visit in October, and 3 out of 6 respondents indicate they visit in Other months.

These numbers are then divided by their summation and presented as a percentage of visitation during the given month. Of the total annual visitation at Donner Lake, 13% is during April, 7% is during May, 7% is during June, 27% is during July, 27% is during August, 0% is during September, 0% is during October and 19% is during other months.

The percentages taken together for all the months then show the pattern of annual site visitation.

A similar interpretation can be made for the other sites.

Table 7.4-6. Annual Site Visitation.

	Study	Lake	Donner	Proceer	Stampede	Boos
	Area	Tahoe	Lake	Reservoir	Reservoir	Reservoir
Number of Respondents that Visit during April	2	0	2	0	0	0
Number of Respondents that Visit during May	2	1	ı	0	0	0
Number of Respondents that Visit during June	6	4	1	1	0	0
Number of Respondents that Visit during July	9	4	4	0	0	1
Number of Respondents that Visit during August	10	4	4	0	0	2
Number of Respondents that Visit during September	2	2	0	0	0	0
Number of Respondents that Visit during October	0	0	0	0	0	0
Number of Respondents that Visit during Other	6	3	3	0	0	0
Total Number of Respondents		18	15	1	0	3
Percentage of Visitation during April		0.00%	13.33%	0.00%	0.00%	0.00%
Percentage of Visitation during May		5.56%	6.67%	0.00%	0.00%	0.00%
Percentage of Visitation during June		22.22%	6.67%	100.00%	0.00%	0.00%
Percentage of Visitation during July		22.22%	26.67%	0.00%	0.00%	33.33%
Percentage of Visitation during August		22.22%	26.67%	0.00%	0.00%	66.67%
Percentage of Visitation during September		11.11%	0.00%	0.00%	0.00%	0.00%
Percentage of Visitation during October		0.00%	0.00%	0.00%	0.00%	0.00%
Percentage of Visitation during Other		16.67%	20.00%	0.00%	0.00%	0.00%

Summer Season Donner Lake Visitation

The number of respondents that visit Donner Lake during the summer season months of June, July, and August is 8. This number of respondents is out of 9 respondents that rent a vacation-home during the summer season months. Average number of days per visit at Donner Lake by these 8 respondents during the summer season months is 3.25 days.

Table 7.4-7 presents the summer season Donner Lake visitation.

Table 7.4-7. Summer Season Donner Lake Visitation.

Number of Respondents Average Number of Days per Visit by Respondents

Summer Season Donner Lake Activities

Respondents that visit Donner Lake during the summer season participate in swimming, picnicking, hiking, boating, fishing, jet skiing, and biking activities.

Summer season Donner Lake activities of respondents are shown in Table 7.4-8. The activities include fishing from shore, fishing from a boat, water skiing, boating, jet skiing, swimming, picnicking, hiking, biking and other activities.

Of 8 respondents, 25% indicate fishing from shore, 13% indicate fishing from a boat, 0% indicate water skiing, 63% indicate boating, 0% indicate jet skiing, 63% indicate swimming, 75% indicate picnicking, 63% indicate hiking, and 13% indicate biking.

Table 7.4-8. Summer Season Donner Lake Activities.

Number of Respondents Fishing	2
Number of Respondents Fishing from Bost	1
Number of Respondents Water Skiing	0
Number of Respondents Bosting	5
Number of Respondents Jet Skiing	1
Number of Respondents Swimming	5
Number of Respondents Picnicking	6
Number of Respondents Hiking	5
Number of Respondents Biking	1
Number of Respondents Other	0
Percentage of Respondents Fishing	25.00%
Percentage of Respondents Fishing from Bost	12.50%
Percentage of Respondents Water Skiing	0.00%
Percentage of Respondents Bosting	62.50%
Percentage of Respondents Jet Skiing	12.50%
Percentage of Respondents Swimming	62.50%
Percentage of Respondents Picnicking	75.00%
Percentage of Respondents Hiking	62.50%
Percentage of Respondents Biking	12.50%
Percentage of Respondents Other	0.00%

Summer Season Donner Lake Activity Hours

Respondents that visit Donner Lake during the summer season spend an average of 8.40 hours per day on activities.

Summer season Donner Lake activity hours per day of respondents are provided in Table 7.4-9. Again the activities include fishing from shore, fishing from a boat, water skiing, boating, jet skiing, swimming, picnicking, hiking, biking and other activities.

Respondents indicate they spend an average of 1.13 hours per day fishing from shore, 0.25 hours per day fishing from a boat, 0.00 hours per day water skiing, 1.38 hours per day boating, 0.25 hours per day jet skiing, 2.13 hour per day swimming, 1.88 hours per day picnicking, 1.25 hours per day hiking, 0.13 hours per day biking, and 0.00 hours per day on other activities.

Table 7.4-9. Summer Season Donner Lake Activity Hours.

Average Activity Hours per Day spent Fishing by Respondents	1.13
Average Activity Hours per Day spent Fishing from Bost by Respondents	0.25
Average Activity Hours per Day sport Water Skiing by Respondents	0.00
Average Activity Hours per Day spent Bosting by Respondents	1.38
Average Activity Hours per Day sport Jet Skiing by Respondents	0.25
Average Activity Hours per Day spent Swimming by Respondents	2.13
Average Activity Hours per Day spent Picnicking by Respondents	1.88
Average Activity Hours per Day spent Hiking by Respondents	1.25
Average Activity Hours per Day spent Biking by Respondents	0.13
Average Activity Hours per Day spent on Other activities by Respondents	0.00
Total Activity Hours per Day by Respondents	8.40

Ranking of Summer Season Donner Lake Characteristics

Respondents that visit Donner Lake during the summer season rank site characteristics as good to satisfactory.

Ranking of summer season Donner Lake Characteristics by respondents is shown in Table 7.4-10. Site characteristics include natural setting and environment, recreation opportunities, lake-level, boat ramp and dock access, crowd level, and facilities. The ranking of each can range from 1 being very good to 5 being very poor.

Respondents rank natural setting and environment as good, recreation opportunities as good, lake-level as good, boat ramp and dock access as good, crowd level as satisfactory, and facilities as good.

Table 7.4-10. Ranking of Summer Season Donner Lake Characteristics.

Average Value of Natural Setting and Environment by Respondents	1.88
Average Value of Recreation Opportunities by Respondents	2.00
Average Value of Lake-Level by Respondents	2.38
Average Value of Boat Ramp and Dock Access by Respondents	2.43
Average Value of Crowd Level by Respondents	3.00
Average Value of Facilities by Respondents	2.38

Ranking: 1=Very Good; 2=Good; 3=Satisfactory; 4=Poor; and, 5=Very Poor.

Summer Season Donner Lake Alternative Lake Level Sensitivity

The number of respondents that indicate a change in the number of vacation-home visits at alternative lake-levels for Donner Lake during the summer season is 1. The number of respondents that indicate no change in the number of vacation-home visits at alternative lake levels for Donner Lake during the summer season is 18.

Table 7.4-11 provides the summer season Donner Lake alternative lake-level sensitivity.

Table 7.4-11. Summer Season Donner Lake Alternative Lake-Level Sensitivity.

Number of Respondents that indicated a Change in the Number of Vacation-Home Visits at Alternative Lake-Levels	1
Number of Respondents that indicated No Change in the Number of Vacation-House Visits at Alternative Lake-Lovels	18
Total Number of Respondents	19

Summer Season Visitation Expenditures

Visitation expenditures by respondents during the summer season are highest on restaurant and groceries.

Summer season visitation expenditures by respondents are presented in Table 7.4-12. Average expenditure per visit, average expenditure per visit per day, and average expenditure per visit per day per person are given for restaurant, groceries, gasoline, other shopping, recreation rental, golf fees, other user fees, gaming, and other.

Respondents indicate an average total expenditure per visit of \$560.25, an average total expenditure per visit per day of \$143.03, and an average total expenditure per visit per day per person of \$26.12.

Vacation-home rent is treated separately and not included in the above expenditure values.

Table 7.4-12. Summer Season Visitation Expenditures.

Average Expanditure per Visit on Restaurant by Respondents	132.50
Average Expenditure per Visit on Groceries by Respondents	165.31
Average Expenditure per Visit on Gesoline by Respondents	43.75
Average Expenditure per Visit on Other Shopping by Respondents	\$6.88
Average Expanditure per Visit on Recreation Rental by Respondents	63.06
Average Expenditure per Visit on Golf Fees by Respondents	25.00
Average Expenditure per Visit on Other User Fees by Respondents	25.00
Average Expenditure per Visit on Gaming by Respondents	18.75
Average Expenditure per Visit on Other by Respondents	0.00
Average Total Expenditure per Visit by Respondents	\$560.25
Average Expenditure per Visit per Day on Restaurant by Respondents	35.33
Average Expenditure per Visit per Dey on Groceries by Respondents	40.58
Average Expenditure per Visit per Day on Gesoline by Respondents	11.07
Average Expenditure per Visit per Day on Other Shopping by Respondents	21.03
Average Expenditure per Visit per Day on Recreation Rental by Respondents	12.69
Average Expenditure per Visit per Day on Golf Fees by Respondents	15.00
Average Expenditure per Visit per Day on Other User Fees by Respondents	4.65
Average Expenditure per Visit per Day on Geming by Respondents	2.68
Average Expenditure per Visit per Day on Other by Respondents	0.00
Average Total Expenditure per Visit per Day by Respondents	\$143.03
Average Expenditure per Visit per Day per Person on Restaurant by Respondents	6.41
Average Expenditure per Visit per Day per Person on Groceries by Respondents	7.90
Average Expenditure per Visit per Day per Person on Gosoline by Respondents	1.99
Average Expenditure per Visit per Day pre Person on Other Shopping by Respondents	4.24
Average Expenditure per Visit per Day per Person on Recreation Rental by Respondents	2.23
Average Expenditure per Visit per Day per Person on Golf Fees by Respondents	1.88
Average Expenditure per Visit per Day per Person on Other User Fees by Respondents	0.99
Average Expenditure per Visit per Day per Person on Gazzing by Respondents	0.48
Average Expenditure per Visit per Day per Person on Other by Respondents	0.00
Average Total Expenditure per Visit per Day per Person by Respondents	\$26.12

Summer Season Vacation-Home Rent Expenditure

The average rent expenditure per visit by respondents on vacation-home rent during the summer season is \$671.88.

The summer season vacation-home rent expenditure by respondents is provided in Table 7.4-13. An average rent expenditure per visit with an average rent expenditure per visit per day and average rent expenditure per visit per day per person is given.

Respondents indicate an average rent expenditure per visit of \$671.88, and average rent expenditure per visit per day of \$165.53, and an average rent expenditure per visit per day per person of \$29.00.

Table 7.4-13. Summer Season Vacation-Home Rent Expenditure.

Average Rent Expenditure per Visit by Respondents \$671.88

Average Rent Expenditure per Visit per Day by Respondents \$165.53

Average Rent Expenditure per Visit per Day per Person by Respondents \$29.00

Comments

Excerpts taken from a few comments made by respondents on renting a vacationhome in the Truckee area are listed below.

- 1. "...Great location and cute town. We hope it doesn't Grow too much. Beautiful area."
- 2. "We love the Truckee area and have increased the amount of time spent there over Tahoe due to water level in Tahoe and the crowds there. If the lake level were decreased I'm sure it would influence us to choose another place to stay but that would be sad as we have truly grown to love Truckees beauty and small town charm."
- 3. "I rent in the Tahoe area because the climate is radically different from that in the Bay Area during the winter and because of the social interaction we can create by gathering friends in a large house. I would come more often if real-estate rental were cheaper."
- 4. "We have enjoyed coming to Truckee to play in the adult coed soccer tournament..."
- 5. "We are not boaters but came for some snow fun and minimal skiing."
- 6. "We rent a home in Truckee for the summer months of July, Aug, Sept. We live in the desert so we come there for the summer climate -we spend most of our time golfing Rent boats on Lake Tahoe and Donner once in a while so I am not qualified to answer detail questions"
- 7. "Typically we enjoy the Truckee area most in the winter. Usually we rent a home in the winter months from one of the property management offices. Skiing is our favorite sport."
- 8. "This was the first time we rented a vacation home. Have stayed in hotels before. Really did enjoy it...have decided to buy a home in Incline Village. We are selling our home in California."
- 9. "We don't visit during the summer months...enjoy Truckee area best....It's also near enough to everything we need."

10. "We tend to rent in Tahoe-Donner for the following reasons: ...Rustic Truckee vs "Tacky" South Shore...Donner Lake setting vs Tahoe...trains above Donner Lake...family atmosphere...walking/hiking around TD and Donner lake... Casinos in Boomtown..." "Concerns: water-level..skidoo drivers rude and out of control...Tahoe-Donner needs to offer renters a pass option for amenities... it is often impossible to plan ahead with small children - they offer no refund on unused amenity tickets..."

7.5. Estimation of the Expenditure Function

Expenditures of camping and day use visitors at each of the sites are calculated using an expenditure function. Specification of the expenditure function and estimation of the expenditure function are as follows.

Specification of the Expenditure Function

The expenditure function is an important ingredient of the modern theory of consumer behavior. It shows the minimal expenditures necessary to achieve a given utility level for a particular set of prices. The properties of the expenditure function in the areas of theoretical and applied analysis of consumer behavior are developed in the studies by Barton and Bohm (1982), Deaton and Muelbauer (1980), Hicks (1946), Samuelson (1947), Silberberg (1978), Theil (1975), and Varian (1992). Let E (P, U) be an expenditure function, where P is a vector of commodity prices and U is a given level of utility. The expenditure function is the solution to the following problem:

$$E(P, U) = Min PX$$
such that $U(X) \ge U$

$$(7.5-1)$$

where X is a vector of non-negative quantities of goods. The solution to this optimization problem is the expenditure function that gives the minimum cost of achieving the fixed level of utility. For the expenditure function E (P, U) to be well behaved, it must have the following properties: (i) E (P, U) is non decreasing in P, (ii) E (P, U) is homogeneous of the degree 1 in P, (iii) E (P, U) is concave in P, (iv) E (P, U) is continuous in P, for P > 0, and (iv) if X (P, U) is the expenditure-minimizing bundle necessary to achieve utility level U at prices P, then X (P, U) = δ E (P, U) / δ P assuming the derivative exists and that P > 0.

The application of the expenditure function in empirical studies of consumer behavior requires the availability of observed market prices on goods and the existence of a well-behaved utility function. In the area of demand for recreation activities, there are no market-based transactions to determine observed market prices. Consequently, the notion of a regular utility function has to be modified in developing the expenditure function for the recreation activities. Let F be a vector of the time spent on a series of recreational activities by an individual at a particular site. The indirect utility function V for recreational activities for this individual is:

$$V = V (F, S, I)$$
 (7.5-2)

where S is a vector of site characteristics that captures the substitutability of visits across various sites and I is the total budget allocated by an individual to participate in all the recreational activities included in F. The expenditure function E dual to the indirect utility function in (7.5-2) is the minimum expenditure required for the individual to participate in all the recreational activities in F, given the site characteristics in S. The expenditure function E derived from (7.5-2) is:

$$E = I = V^{-1} (F, S)$$
 (7.5-3)

The expenditure function in (7.5-3) can also be modified to include the variable of the total number of visitors to the site. Let N be the total number of visitors. Then the expenditures function is:

$$E = V^{-1}(F, S, N)$$
 (7.5-4)

The specification of the expenditure function in (7.5-4) is an empirical issue and it could be determined upon a estimation model selection technique, e.g., the Box-Cox estimation technique. One notable feature of the expenditure function in (7.5-4) is that it can be used to estimate expenditures of recreational activities at a particular site.

The expenditure function in (7.5-4) is used to evaluate the expenditures of recreational activities at the following seven sites in California and Nevada: Upper Truckee River, Donner Lake, Prosser Reservoir, Stampede Reservoir, Boca Reservoir, Lower Truckee River, and Pyramid Lake. The attributes of the characteristics of each site are captured by including dummy variable for each site in S. The definition of the dummy variables included in S are: UTR = 1 if the visitation site is Upper Truckee River and 0 otherwise; DL = 1 if the visitation site is Donner Lake and 0 otherwise; PR = 1 if the visitation site is Prosser Reservoir and 0 otherwise; SR = 1 if the visitation site is Stampede Reservoir and 0 otherwise; BR = 1 if the visitation site is Boca Reservoir and 0 otherwise; LTR = 1 if the visitation site is Lower Truckee River and 0 otherwise; and, PL = 1 if the visitation site is Pyramid Lake and 0 otherwise. The hours spent on each of the following eleven recreational activities are included in F. The activities were determined according to their availability and popularity at the sites. The activities are: picnicking, camping, fishing, swimming, boating, fishing from boat, water skiing, jet skiing, rafting, kayaking, biking, hiking, and other activities. To capture the effect of the type of visitor at a given site on their expenditures, i.e., camping versus day use, a dummy variable D, defined as D = 1 if camping visitor and 0 if day use visitor, is included in the expenditure function in (7.5-4). Following the categorization of expenditures on the recreation survey, the expenditures by a visitor to a given site are identified as licenses, camping fees, hotel or motel, restaurant, groceries, equipment and supplies, rental, fuel, and other. Using the above specification of the variables, the expenditure function in (7.5-4) can now be presented as:

$$E_i = V^{-1}$$
 (UTR, DL, PR, SR, BR, LTR, PL, D, $\sum_{i=1}^{N} F_i$, N); $i = 1,....,7$ (7.5-5)

The functional form specification of the expenditure function in (7.5-5) is an empirical issue and it will be determined using the Box-Cox flexible functional form technique. The Box-Cox specification of the expenditure function in (7.5-5) is:

$$\frac{E_{i}^{\lambda} - 1}{\lambda} = \beta_{1}UTR + \beta_{2}DL + \beta_{3}PR + \beta_{4}SR + \beta_{5}BR + \beta_{6}LTR + \beta_{7}PL + \beta_{8}D \quad (7.5-6)$$

$$+ \frac{21}{\Sigma} \frac{F_{j}^{\lambda} - 1}{\lambda} + \frac{N^{\lambda} - 1}{\lambda} + \frac{N^{\lambda} - 1}{\lambda} + U$$

where U is the stochastic error term, β is the slope parameter, and λ is the transformation parameter. The transformation parameter may take a wide range of values that would determine the particular functional form that the variable subject to the Box-Cox transformation will assume. For example, one gets a logarithmic transformation for a variable if λ is equal to zero. All of the coefficients of the expenditure function in (7.5-5), including λ , will be estimated using the estimation of the following log-likelihood function:

L (
$$\lambda$$
, β , σ^2 ; E, X) = $-\frac{T}{2}$ Ln ($2\pi\sigma^2$) $-\frac{1}{2\sigma^2}$ ($E^{\lambda} - X^{\lambda}B$) / ($E^{\lambda} - X^{\lambda}B$) (7.5-7)
+ Ln (J); and J = det [$\frac{\partial E^{\lambda}}{\partial E}$ T ∂E $\int E^{\lambda} + E^{\lambda} = 1$

where X is a vector of observations on all the exogenous variables, B is a vector of all the slope parameters to be estimated, and T is the number of observations.

Estimation of the Expenditure Function

The data collected through the recreation survey for the seven sites is used to estimate the expenditure function in (7.5-6). A total number of 432 out of the 443 complete questionnaires are used in the estimation. The initial diagnosis of the data revealed that there are a large number of zeros on most of the recreational activities and a number of expenditure categories making the estimation of the expenditure function in its generalized form in (7.5-6) impossible. A number of alternatives to combine some of the recreational activities are tried to estimate a modified form of the expenditure function in (7.5-6). All of these attempts resulted into some difficulties in estimation of the expenditure function in (7.5-6).

The final modified form of the expenditure function in (7.5-6) that provides meaningful estimation results is:

$$\frac{E^{\lambda} - 1}{\lambda} = \beta_1 UTR + \beta_2 DL + \beta_3 PR + \beta_4 SR + \beta_5 BR + \beta_6 LTR + \beta_7 PL + \beta_8 D \quad (7.5-8)$$

$$\lambda$$

$$F^{\lambda} - 1 \qquad N^{\lambda} - 1$$

$$+\beta 9 \left(\frac{F^{\lambda}-1}{\lambda}\right) + \beta_{10} \left(\frac{N^{\lambda}-1}{\lambda}\right) + U$$

The expenditure function expressed in simple notation becomes:

LnE =
$$\beta_1$$
UTR + β_2 DL + β_3 PR + β_4 SR + β_5 BR + β_6 LTR + β_7 PL + β_8 D (7.5-9)
+ β_9 LnF + β_{10} LnN + U

where E is the sum of the nine expenditure categories per day, F is the sum of the hours spent per day by a visitor on the thirteen categories of recreational activities, and N is the group size. The Ln is an abbreviation for natural logarithm.

Using the survey observations on the variables E, F, N, the seven location dummy variables, and the type of visitor dummy variable, the expenditure function in (7.5-8) or (7.5-9) is estimated having the following results.

The numbers in the parentheses are the asymptotic t-ratios for 452 degrees of freedom. The adjusted R² is 0.0753 for the 462 observations. The 473 observations were edited down to 462. Observations that were deleted were observations having a zero for total expenditures, or a zero for total recreation activity hours, or a zero for group size. The camping and day use visitor expenditure function observations are given in Table 7.5-1.

The maximum likelihood (ML) ratio test is then used to check the validity of alternative functional specifications of the expenditure function for specific value of λ , i.e., logarithmic ($\lambda = 0$) and linear ($\lambda = 1$) functional forms. Let S denote the parameter space under the Box-Cox specification and s denote the subspace of S restricted by the null hypothesis (H^o). The ML ratio test to test for a given functional form under H^o is a large sample test and can be conducted as follows:

$$d = -2[L(S) - L(s)] (7.5-11)$$

where L (S) is the maximum of the log likelihood function under S and L (s) is the maximum value of the log likelihood function under s. If H^0 is true, the statistic d has the limiting chi-squared (χ^2) with n degrees of freedom, where n is the number of restrictions imposed by H^0 .

The maximum likelihood estimation of λ in (7.5-8) is 0.07 with the maximum of the log likelihood function L(S) of - 803.568. Using estimates of the maximum log likelihood function of λ , L(s) for the logarithmic and linear specifications of the expenditure function, the test statistic in (7.5-11) is calculated. The test results provide evidence to accept H⁰: $\lambda = 0$ and to reject H⁰: $\lambda = 1$ against the alternative hypothesis that H⁰: $\lambda = 0.07$. In other words, the final functional specification of the expenditure function is in logarithmic functional form.

The estimated expenditure function predicts the logarithm of the average expenditures per day at a particular site for both camping and day use visitors for given values of the logarithm of their hours of non-camping recreation activity and the logarithm of their group size. Then the average expenditures per day are determined by taking the anti-log of the logarithm of the average expenditures. This procedure is shown below by site.

Upper Truckee River

Camping Visitor Group Expenditures per Day

$$LnE = 4.4374$$

$$E = $84.55$$

Donner Lake

Camping Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(1) + 2.8812(0) + 3.1279(0) + 2.9892(0)$$
$$+ 2.7781(0) + 3.0575(0) - 0.4474(1) + 0.2320Ln(8.29) + 0.3195Ln(5.24)$$

$$LnE = 3.0354 - 0.4474 + 0.2320(2.12) + 0.3195(1.66)$$

$$LnE = 3.6102$$

$$E = $36.97$$

Day Use Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(1) + 2.8812(0) + 3.1279(0) + 2.9892(0)$$
$$+ 2.7781(0) + 3.0575(0) - 0.4474(0) + 0.2320Ln(5.63) + 0.3195Ln(5.02)$$

$$LnE = 3.0354 + 0.2320(1.73) + 0.3195(1.61)$$

$$LnE = 3.9512$$

$$E = $52.00$$

Prosser Reservoir

Camping Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(1) + 3.1279(0) + 2.9892(0)$$
$$+ 2.7781(0) + 3.0575(0) - 0.4474(1) + 0.2320Ln(7.67) + 0.3195Ln(3.73)$$

$$LnE = 2.8812 - 0.4474 + 0.2320(2.04) + 0.3195(1.32)$$

$$LnE = 3.3288$$

$$E = $27.90$$

Day Use Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(1) + 3.1279(0) + 2.9892(0)$$

$$+2.7781(0) + 3.0575(0) - 0.4474(0) + 0.2320Ln(3.38) + 0.3195Ln(3.13)$$

$$LnE = 2.8812 + 0.2320(1.22) + 0.3195(1.14)$$

$$LnE = 3.5284$$

$$E = $34.07$$

Stampede Reservoir

Camping Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(0) + 3.1279(1) + 2.9892(0)$$
$$+ 2.7781(0) + 3.0575(0) - 0.4474(1) + 0.2320Ln(7.82) + 0.3195Ln(5.12)$$

$$LnE = 3.1279 - 0.4474 + 0.2320(2.06) + 0.3195(1.63)$$

LnE = 3.6792

E = \$39.61

Day Use Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(0) + 3.1279(1) + 2.9892(0)$$
$$+ 2.7781(0) + 3.0575(0) - 0.44743(0) + 0.2320Ln(5.67) + 0.3195Ln(3.89)$$

$$LnE = 3.1279 + 0.2320(1.74) + 0.3195(1.36)$$

LnE = 3.9661

E = \$52.78

Boca Reservoir

Camping Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(0) + 3.1279(0) + 2.9892(1)$$
$$+ 2.7781(0) + 3.0575(0) - 0.4474(1) + 0.2320Ln(7.83) + 0.3195Ln(5.10)$$

$$LnE = 2.9892 - 0.44743 + 0.2320(2.05) + 0.3195(1.63)$$

LnE = 3.5382

E = \$34.40

Day Use Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(0) + 3.1279(0) + 2.9892(1)$$

$$+2.7781(0) + 3.0575(0) - 0.4474(0) + 0.2320Ln(5.24) + 0.3195Ln(5.02)$$

$$LnE = 2.9892 + 0.2320(1.66) + 0.3195(1.61)$$

LnE = 3.8887

E = \$48.85

Lower Truckee River

Camping Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(0) + 3.1279(0) + 2.9892(0)$$
$$+ 2.7781(1) + 3.0575(0) - 0.4474(1) + 0.2320Ln(3.00) + 0.3195Ln(2.00)$$

$$LnE = 2.7781 - 0.4474 + 0.2320(1.10) + 0.3195(0.69)$$

LnE = 2.8064

E = \$16.55

Day Use Visitor Group Expenditures per Day

$$LnE = 3.6390(0) + 3.0354(0) + 2.8812(0) + 3.1279(0) + 2.9892(0)$$
$$+ 2.7781(1) + 3.0575(0) - 0.4474(0) + 0.2320Ln(3.96) + 0.3195Ln(2.29)$$

$$LnE = 2.7781 + 0.2320(1.38) + 0.3195(0.83)$$

LnE = 3.3635

E = \$28.89

Pyramid Lake

Camping Visitor Group Expenditures per Day

$$LnE = 3.0575 - 0.4474 + 0.2320(2.10) + 0.3195(1.55)$$

LnE = 3.5925

E = \$36.32

Day Use Visitor Group Expenditures per Day

$$LnE = 3.0575 + 0.2320(1.75) + 0.3195(1.78)$$

LnE = 4.0322

E = \$56.38

The above camping and day use visitor expenditure function values are presented by site in Table 7.5-2.

Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations.

			. •		•		•										
Observation Number	Year	Site	Questionnaire Number	Vinitor Type	Expenditures	Number of Days	Expenditures per Day	Upper Truckee River	Donner Lake	Prosser Reservoir	Stampole Reservoir	Bosa Reservoiz	Lower Truckee River	Pyramid Lake	Camping Visitor	Activity Hours	Ciroup Size
						•		UTR	DL	PR.	SR	BR	LTR	PL.			
		-	•	-	4/7.44											2.5	
1 2	1993 UT 1993 UT		1 0		267.00 240.00	7.0 10.0		1	0	0			0		. I	6.0	4.0 4.0
5	1993 UI		3		100.00	2.0		i	ō	ě			-	Ď	-	3.0	4.0
4	1993 UT	TR.	4 (CP	290.00	2.0	145.00	i	0	o o	•	•	•	•	1	6.0	4.0
5	1993 UT		5 (183.50	3.0		!	0	0	9	•	9	•	•	5.0	2.0
6 7	1993 UT 1993 UT		7		£3.00 50.00	7.0 1.0		1		•					•	\$.0 2.0	2.0 6.0
í	1993 UT		6		71.90	1.0		i	ŏ	ĭ		•	ì		-	7.0	4.6
•	1993 UI		9		36.00	3.0		i	ŏ	ŏ		ŏ	Ŏ	ŏ	1	2.0	4.0
TO	1993 UI		10		190.00	5.0		Į.	0	•	•	•		0	-	1.0	2.0
11	1993 UT		11		78.00	2.0		1	•	•		•			•	2.0	4.0
12 13	1993 UT		12 (13 (223.00 290.00	4.0 14.0		:	×				ž	, ,	-	11.0 14.0	6.0 2.0
14	1993 UT		14		75.00	1.0		i	ě	ŏ			ă	•	•	4.0	2.0
15	1993 UI		15		317.00	10.0		ī	•	ò		•	•	Ò	ī	2.0	2.0
16	1993 UI			DU	450.00	0.0		1	0	•	•	•	•	•	•	3.0	7.0
17	1993 UT			DU	540.00	0.0		į	0	•	•		•		•	3.0	4.0
8 9	1993 PR 1993 PR			DU DU	37.90 54.00	0.0 0.0		•		:			9		•	6.0 2.0	2.0 1.0
20	1993 PH			DÜ	732.00	0.0		ĭ	š	i					•	4.0	1.0
21	1993 PR			DÜ	268.00	0.0		Ŏ	ō	i		i	ě	Ò	Ŏ	3.0	5.0
22	1993 PR			DU	24.50	0.0		0	•	1		•	•	• •	•	3.0	2.0
23	1993 PR			DU	623.00	0.0			•	Ļ		•	9	9	•	2.0	2.0
24 25	1993 \$8 1993 \$8			CP CP	145.00 66.00	3.0 3.0		0		•		:	5		1 1	3.0 8.0	8.0 4.0
26	1993 58			œ.	177.50	2.0		ŏ	·	š	;				: :	4.0	4.0
27	1993 SR			ä r	137.00	2.0		ò		ě	i	i			i	2.0	2.0
26	1993 SB			CP .	163.00	3.0		•	•	•) 1	•		•	i i	2.0	3.0
29	1993 58			CP .	180.00	3.0		•		0) 1	•	9		1	9.0	7.0
30 31	1993 SB 1993 SB			CP CP	421.00 110.90	7.0 2.0				•	!					9.0	9.0
32	1993 SR			œP	500.00	2.0				×					:	7.0 5.0	2.0 14.0
33	1993 SI		10		239.00	3.0		ŏ	·	š	i	i			i	4.0	8.0
34	1993 88	t	II.		76.00	3.0		0		ō	i	•			i	5.0	1.6
35	1993 \$8		12		56.00	2.0		•	•	•	1	•	•	•		5.0	2.0
36 37	1993 SB 1993 SB		13		91.00 325.00	5.0 4.0			•	•	. !	. •	•	•	•	5.0	2.0
37 38	1993 SA		14 15		315.00	3.0							3		•	5.0 13.0	2.0 10.0
39	1993 SI		16		312.00	2.0		•	·	Š					•	8.0	5.0
40	1993 58		17		167.20	2.0		Ó		ō	i	i	ì	ò	i	6.0	3.0
41	1993 \$3		16		76.00	1.0		•	•	•		. •	•	• •	1	1.5	2.0
42 43	1993 SI 1993 SI		19 20		90.95 722.00	2.0 10.0		•	•	•			0		1	5.0	6.0
44	1993 58		21		46.06	3.0				•		•	9			12.0 5.0	19.0
45	1993 SE		22		239.00	8.0		ě	ĭ	ŏ					•	3.6	2.0 4.0
46	1993 \$3		23		240.00	2.0		•	•	ě	i	Ĭ	ī	ò	i	10.0	LO
47	1993 58		24		266.00	7.0		•	•	•		•	•	• •	1	6.5	5.0
48	1993 58		25		123.00 169.00	6.0		•	•	0	1	•	٠	•	•	1.0	4.0
49 50	1993 SA 1993 SA		26 27		77.00	6.0 2.0				•						2.0	2.0
si si	1993 88		20		199.00	2.0		•	۵	•						13.0 4.0	2.0 12.0
52	1993 33		29	œ	249.00	3.0		ō	i	ě			ŏ		•	5.0	13.0
53	1993 53		30		90.00	2.0		•	•	0	i	•	i	à	i	5.0	2.0
54	1993 58		31 32		361.00	7.0			•	•		•	•	•		10.0	4.0
55 56	1993 SB 1993 SB		32		65.50 230.00	5.0 3.0		•	•	0	1	•	9	•	1	5.0	2.0
57	1993 58			DU	43.00	0.0		•		0					L	8.0 3.0	7.5 4.0
59	1993 SA		2	ĐU	204.00	0.0		ě		•						5.0	4.0 8.0
59	1993 EB	ł.	3	DU	15.00	0.0		ò		ŏ		i				4.0	4.0

Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations (continue).

Observation Number	Your	Site	Questicnasies Number	Visitor Type	Expenditures	Number of Days	Expenditures per Duy	Upper Truckee River	Donner Leke	Promor Reservoir	Stampede Reservoir	Boca Reserveir	Lower Treckee River	Pyrumid Lako	Camping Visitor	Activity Hours	Circup Size
								UTR	DL	PR	53.	ÐR	LTR	PL			
60	1993 SR		41	DU	271.00	6.0	271.00	0		•			0	•	•	8.0	2.0
6 l	1993 SR		5 1		158.00	0.0	158.00		0	•			0	•	•	5.0	2.0
62	1993 SR		6 !		137.00	0.0	137.00	0	0	•		0	•		•	5.0	2.0
63 64	1993 SR 1993 SR		7 1		60.00 35.00	0.0 0.0	60.00 35.00	Š	Ÿ				•			10.0 8.0	4.0 2.0
65	1993 SR		9 1		150.00	0.0	150.00	ŏ	ŏ	ŏ		i	ŏ	Ŏ	ŏ	3.0	7.0
66	1993 BR		10		63.00	2.0	31.50	0	0	0	ō	i	0	•	ı	7.0	4.0
67	1993 BR		2 (175.00	10.0	17.50	0	0	•	•	•	•	0	1	3.6	2.0
6 4 69	1993 BR 1993 BR		3 (124.00 100.00	2.0 14.0	62.00 7.14	•	0	0	-	•	0		. !	7.0 4.0	4.0 4.0
76	1993 BR		11		30.00	0.0	30.00				•	•	v	•		5.0	5.0
71	1993 BR		2 1		60.00	0.0	60.00	ō	6	ō		i	ě	. 0	0	6.0	9.0
72	1993 BR		3 1		70.00	0.0	70.00	0	0	•			0	• •	0	8.0	4.0
73	1993 BR		4 !		30.00	0.0	30.00	0	0	0	•	•	•	•		4.0	2.0
74 75	1993 BR 1993 BR		5 i		465.00 110.00	0.0 6.0	465.00 110.00	0	0	0		•	0	•		6.0 2.0	2.0 18.0
76	1993 BR		7;		73.00	0.0	73.00	ě	ŏ	ŏ	•		ě		ě	5.0	3.0
77	1993 BR		6 I	DU	30.00	0.0	30.00	•	0	0		i	0	· i	•	2.0	2.0
76	1993 BR		9 !		130.00	0.0	130.00	0	•	0	-	•	0	•	•	8.0	4.0
79 30	1993 BR 1993 BR		10 1 11 1		10.00 12.00	0.0 0.0	10.00 12.00		0							6.0 5.0	18.0 2.0
21	1993 DR		12		12.00	0.0	12.00	š		0			•		•	5,0	4.0
B2	1993 BR		13		10.00	0.0	10.00	ě	ŏ	ŏ	•	; i	į	ě	•	4.0	1.0
83	1993 BR		14 1		46.50	0.0	46.50	•	0	•	•	ì	•	• •	•	5.0	2.0
14	1993 BR		\$5 1		129.00	0.0	129.00	0	•	•	•	, i	•	•	•	6.0	5.0
85 86	1993 BR 1993 BR		16 1 17 1		41.00 20.00	0.0 0.0	41.00 20.00	•	0	:		: :	9			8.0 2.0	3.0
87	1993 BR		18 (32.00	0.0	32.00	ě	ĕ	ě		:				3.0	3.0 6.0
11	1993 BR		19		70.00	₽.0	70.00	ě	ŏ	ŏ		i	i	·	ŏ	6.0	7.0
89	1993 BR	l	20 1		25.00	●.0	25.00	0	0	•	-	•	0	•	•	3.0	6.0
96	1993 BR		21 1		1910.00	0.0	1910.00	•	0	0		•	•	•	•	8.0	3.0
91 92	1993 BR 1993 BR		22		42.50 220.00	0.0 0.0	42.50 220.00		0	0		•	0		•	5.0 2.0	2.0 10.0
93	1993 DR		24		42.00	0.0	42.00	ŏ	ŏ	ŏ		i	ŏ		ŏ	1.0	4.0
94	1993 BR		25 1		25.00	0.0	25.00	Ö	o	ō		i	ò	· •	Ō	4.0	3.0
95	1993 BR		26 1		10.00	0.0	10.00	0	0	0	•	•	•	•	•	2.0	2.0
94 97	1993 BR 1993 BR		27 (28)		20.00 60.00	0.0 0.0	20.00 60.00	•		•		!	0	•	•	5.0	1.0
94	1993 BR		29		40.00	0.0	40.00	ŭ		ï		:		•		5.0 6.0	4.0 8.0
99	1993 BR		30		30.00	0.0	30.00		ō	ŏ		,	ŏ	•		4.0	7.0
100	1993 BR		31		223.00	0.0	223.00	0	0		•		0	•	•	9.0	1.0
101 102	1993 BR 1993 BR		32 (33 (150.00 10.00	0.0 0.0		•	•	0		•	•	0		6.0	7.0
103	1993 BR		34		10.00	0.0				0	•	•	0			3.0 4.0	3.0 1.0
104	1993 BR		35		24.00	0.0	24.00	ŏ	ě	ě			ĭ		•	5.0	3.0
105	1993 BR		36 1		37.00	0.0	37.00	•		0		ì	i	i	i	6.0	10.0
106	1993 DR		37 1		0.50	0.0	0.50	0	•	•	•	•	•	• •	•	1.0	2.0
107 108	1993 DR 1993 DR		38 39		220.00 90.00	0.0	200.00 90.00	•	•	•	•		•		•	12.0	5.0
109	1993 DR		40		300.00	0.0	300.00		•	0		•				5.0 4.0	2.0 3.0
110	1993 LT		1		35.00	2.0	17.50	ŏ	ő	ŏ		•	i			3.0	3.0 2.0
111	1993 LT			DÜ	1.00	0.0	1.00	0	0	0		i	i	i	i	4.0	1.0
112	1993 LT			DU	94.00	0.0	94.60	0	0	0		•	ı	•	•	4.0	5.0
113 114	1993 LT 1993 LT		3 1	DU DU	151.00 23.00	0.0 0.0	151.00 23.00	0	•	0	•		i	•	0	7.0	2.0
115	1993 LT		5 1		1.00	0.0	1.00	•	•	Δ				0		4.0 7.0	1.0 2.0
116	1993 LT	R	61	DÜ	45.00	0.0	45.00	ŏ	ŏ	ŏ			i	ŏ		4.0	4.0
117	1993 LT		7 !		13.50	0.0	13.50	0		0	•		i	ó	Ŏ	5.0	1.0
£1\$	1993 LT	R	6.1	DU	28.00	0.0	20.00	•	0	0	•	•	1	0	0	3.0	2.0

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Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations (continue).

Number N			1 0									•	•	•		
110 1991 178		Year Site			of	Per Per	Truckee River	Lake	Reservoir	Reservoir	Reservoir	Trackee River	Lake			
198 17R							UTR	DL	PR	SR	BR	LTR	PL			
198 17R	116	1005 TTD	4 DE	1 21.00	0.0	21.00		•						•	46	1.6
121 1999 17R							-					i				
13 1990 LTR			11 DE	775.00		775:00	0	0			i ė	1	•	0		1.0
124 1999 LTR							0	0	•		•		. •	•		
13 1990 LTR								0				1		-		
156 1993 TTR							ŏ		•				i	-		
128 1993 UTR							ě	ō			i	i	i o			
129 1999 LTR							0	0		•	•	1	. •	•		
196 1979 17R							•		9		•	!		•		
131 1999 LTR 21 DU 71.06 0.0 71.07 0.0 0 0 0 0 0 0 0 0							•	:						-		
132 1999 LTR 22 DU 73.00 0.0 73.00 0.0 0.0 1.0 0.35 2.6 13.0 13.5 1995 LTR 23 DU 31.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0							ŏ	ŏ			ĭ		i	-		
134 1999 FL 1 CC 275.00 4.0 0.0 4 0 0 0 0 1 0 0 1 1 1.0 2.0 134 1999 FL 1 CC 275.00 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1							ō	•			Ò	i	i é	0		2.0
135 1999 FL 2 CP 75.00 3.0 25.00 0 0 0 0 0 1 1 1 .0 2.0 1 .0 1 .0 1.0 2.0 1 .0 1							0	•	•		•	1		0		
1156 1993 Pt. 3 CC							•		2					:		
137 1992 PL 3 CP 170.00 2.0 85.00 0 0 0 0 0 0 1 1 1 7.0 2.0 138 1993 PL 4 CP 41.00 1.0 41.00 0 0 0 0 0 0 0 0 1 1 1 7.0 2.0 138 1993 PL 4 CP 41.00 1.0 41.00 0 0 0 0 0 0 0 0 0 1 1 1 12.0 2.0 13.0 1393 PL 4 CP 41.00 1.0 41.00 0 0 0 0 0 0 0 0 0 0 1 1 1 12.0 2.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13							ï				•		:	- :		
1999 FIL. 5 CP							i	ŏ	ì		i	•	i	i		
140 1999 PL							•	•		•	•	•	ı	ι		
141 1999 PL							•	•	•		•	9	!	1		
142								0					: :	1		
143 1999 FL 9 CP 195.00 6.0 32.50 0 0 0 0 0 1 1 3.0 4.5 144 1999 FL 1 DU 70.00 0.0 70.00 0 0 0 0 0 1 1 0 5.0 145 1999 FL 2 DU 70.00 0.0 70.00 0 0 0 0 0 0 1 0 7.0 146 1999 FL 3 DU 61.00 0.0 61.00 0.0 0 0 0 0 0 0 1 0 7.0 147 1999 FL 3 DU 61.00 0.0 61.00 0.0 0 0 0 0 0 0 0							š	ŏ					; ;	i		
145							ò	ŏ	•		i	č	i	i		
146 1995 PL 2 DU 20.08 0.0 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							0	0	•			•) 1	ı,		
147 1999 PL 3 DU 41.00 0.0 61.00 0 0 0 0 0 0 0 1 0 5.0 3.0 149 1999 PL 5 DU 45.00 0.0 45.00 0 0 0 0 0 0 0 0 0 1 0 5.0 3.0 149 1999 PL 5 DU 42.00 0.0 45.00 0 0 0 0 0 0 0 0 0 1 0 7.0 10.0 150 1999 PL 7 DU 42.00 0.0 45.00 0 0 0 0 0 0 0 0 0 1 0 0 7.0 10.0 150 1999 PL 7 DU 42.00 0.0 40 20.00 0 0 0 0 0 0 0 0 0 1 0 0 0 1 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0.0 42.00 0 0 1 0 0 0 0 0 0 0 0 1 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0 0 0 0 0 0 0 0 0 0 0 0 1 4.0 4.0 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 4.0 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 4.0 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 4.0 4.0 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 4.0 4.0 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 4.0 4.0 4.0 4.0 4.0 151 1999 PL 7 DU 42.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							0	0	9		•	9	!!	-		
148								0		,			:	:		
149							i	ŏ			•					
151 1999 PL 7 DU 220,00 0.0 220,00 0 0 0 0 0 0 0 0 1 0.0 0 1 4.0 4.0 4.0 153 152 1994 DL 1 C C 44,00 4.0 17.00 0 1 0 0 0 0 0 0 0 1 4.0 4.0 4.0 153 1994 DL 2 C C 548,00 5.0 64,60 0 1 0 0 0 0 0 0 0 1 2.0 6.0 154 1994 DL 3 C C 108,00 3.0 3.0 36,00 0 1 0 0 0 0 0 0 0 1 2.0 6.0 154 1994 DL 3 C C 20 155.0 6.0 5.0 5.0 5.0 6.4 1 0 0 0 0 0 0 0 1 2.0 6.0 155 1994 DL 4 C C 355,00 6.0 55.0 5 0 1 0 0 0 0 0 0 0 1 1.0 6.0 2.0 155 1994 DL 3 C C 108,00 3.0 70,00 0 1 0 0 0 0 0 0 0 1 12.0 4.0 157 1994 DL 3 C C 108,00 3.0 70,00 0 1 0 0 0 0 0 0 0 1 12.0 4.0 159 1994 DL 3 C C 108,00 5.0 32,00 0 1 0 0 0 0 0 0 0 1 12.0 4.0 159 1994 DL 3 C C 108,00 1.0 15,00 1.0 15,00 1.0 10 0 0 0 0 0 0 1 1.0 6.0 15.0 15.0 160,00 1.0 15.0 160 1 1 0 0 0 0 0 0 1 1 5.0 160 1 1 0 0 0 0 1 1 5.0 160 1 1 5.0 160 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							•				Ò	•	i	ó		
152 1994 DL 1 CP 44.00 4.8 17.00 0 1 0 0 0 0 0 0 1 4.0 4.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15								0	•		•	9				
195 1994 DL							:	•	•				. ו	. •		
154 1994 DL 3 CP 188.00 3.0 36.00 0 1 0 0 0 0 0 1 6.0 2.0 155 1994 DL 4 CP 335.00 6.0 55.83 0 1 0 0 0 0 0 0 0 0 1 12.0 4.0 155 1994 DL 5 CP 210.00 3.0 70.00 0 1 0 0 0 0 0 0 0 1 12.0 4.0 157 1994 DL 5 CP 364.25 2.0 28.13 0 1 0 0 0 0 0 0 0 1 12.0 4.0 157 1994 DL 7 CP 160.00 5.0 33.00 0 1 0 0 0 0 0 0 0 1 12.0 4.0 159 1994 DL 8 CP 155.00 2.0 67.50 0 1 0 0 0 0 0 0 0 1 12.0 2.0 160 1994 DL 9 CP 165.00 1.0 160.00 0 0 1 0 0 0 0 0 0 1 12.0 2.0 161 1994 DL 10 CP 44.00 2.0 24.00 0 1 0 0 0 0 0 0 0 1 3.0 2.0 161 1994 DL 11 CP 44.00 2.0 24.00 0 1 0 0 0 0 0 0 0 0 1 3.0 2.0 161 1994 DL 11 CP 44.00 2.0 24.00 0 1 0 0 0 0 0 0 0 0 1 3.0 2.0 163 1994 DL 12 CP 44.00 2.0 24.00 0 1 0 0 0 0 0 0 0 0 1 3.0 2.0 163 1994 DL 12 CP 44.00 4.0 45.25 0 1 0 0 0 0 0 0 0 0 1 5.0 2.0 14.0 163 1994 DL 12 CP 44.00 4.0 45.25 0 1 0 0 0 0 0 0 0 1 5.0 2.0 14.0 163 1994 DL 12 CP 44.00 4.0 163.25 0 1 0 0 0 0 0 0 0 1 7.0 8.0 164 1994 DL 13 CP 990.00 8.0 122.56 0 1 0 0 0 0 0 0 0 1 7.0 8.0 165 1994 DL 14 CP 111.00 5.0 22.20 0 1 0 0 0 0 0 0 0 1 7.0 8.0 165 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 7.0 8.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 0 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 0 0 0 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 0 0 0 0 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								í	•					:		
155 1994 DL								ī	ì		i			i		
157 1994 DL 6 CP 54.25 2.0 28.13 0 1 0 0 0 0 0 1 12.0 9.0 158 1994 DL 7 CP 160.00 5.0 32.00 0 1 0 0 0 0 0 0 1 12.0 2.0 159 1994 DL 8 CP 195.00 2.0 67.50 0 1 0 0 0 0 0 0 0 1 12.0 2.0 160 1994 DL 9 CP 183.00 1.0 163.00 0 1 0 0 0 0 0 0 0 0 1 12.0 2.0 161 1994 DL 10 CP 48.00 2.0 44.00 0 1 0 0 0 0 0 0 0 0 1 5.0 2.0 161 1994 DL 11 CP 181.00 4.0 45.25 0 1 0 0 0 0 0 0 0 1 5.0 2.0 162 1994 DL 12 CP 490.60 4.0 122.65 0 1 0 0 0 0 0 0 0 1 10.0 3.0 164 1994 DL 13 CP 490.60 4.0 122.65 0 1 0 0 0 0 0 0 0 1 7.0 2.0 165 1994 DL 13 CP 190.00 8.0 122.65 0 1 0 0 0 0 0 0 1 7.0 2.0 166 1994 DL 14 CP 111.00 5.0 22.20 0 1 0 0 0 0 0 0 1 7.0 2.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 0 0 0 0 0 0 1 7.0 2.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 385.00 8.0 48.13 0 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 16 CP 180.00 6.0 1.67 0 1 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 16 CP 180.00 6.0 1.67 0 1 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 16 CP 180.00 6.0 1.67 0 1 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 16 CP 180.00 6.0 1.67 0 1 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 18 CP 68.00 2.0 35.00 0 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 18 CP 68.00 2.0 35.00 0 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 18 CP 190.00 3.0 50.00 0 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 20 CP 150.00 3.0 50.00 0 0 1 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 21 CP 150.00 3.0 50.00 0 0 1 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 0 0 1 11.0 7.0 175 1794 DL 22 CP 165.00							•	ı	•	•	•	•	•	1		2.0
158 1994 DL 7 CP 160.00 5.0 32.00 0 1 0 0 0 0 0 1 10.0 6.0 159 1994 DL 8 CP 135.00 1.0 163.00 0 1 0 0 0 0 0 0 0 1 12.0 20 160 1994 DL 10 CP 163.00 1.0 163.00 0 1 0 0 0 0 0 0 0 1 6.0 2.0 161 1994 DL 10 CP 44.00 2.0 24.00 0 1 0 0 0 0 0 0 0 1 5.0 2.0 162 1994 DL 11 CP 48.00 2.0 24.00 0 1 0 0 0 0 0 0 0 1 5.0 2.0 162 1994 DL 11 CP 48.00 4.0 45.25 0 1 0 0 0 0 0 0 0 1 10.0 3.0 163 1994 DL 12 CP 490.60 4.0 122.65 0 1 0 0 0 0 0 0 0 1 10.0 3.0 164 1994 DL 13 CP 90.00 8.0 122.65 0 1 0 0 0 0 0 0 1 7.0 8.0 164 1994 DL 13 CP 90.00 8.0 122.50 0 1 0 0 0 0 0 0 1 7.0 8.0 165 1994 DL 15 CP 385.00 8.0 44.15 0 1 0 0 0 0 0 0 1 11.0 7.0 167 1994 DL 15 CP 385.00 8.0 44.15 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 15 CP 10.00 6.0 1.67 0 1 0 0 0 0 0 1 11.0 7.0 168 1994 DL 16 CP 10.00 6.0 1.67 0 1 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 15 CP 385.00 8.0 44.15 0 1 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 15 CP 385.00 8.0 44.15 0 1 0 0 0 0 0 0 1 11.0 7.0 168 1994 DL 15 CP 385.00 8.0 44.15 0 1 0 0 0 0 0 0 1 11.0 7.0 169 1994 DL 16 CP 150.00 2.0 65.00 0 1 0 0 0 0 0 1 11.0 7.0 170 170 1794 DL 16 CP 150.00 2.0 45.50 0 0 1 0 0 0 0 0 1 11.0 7.0 170 1794 DL 15 CP 150.00 2.0 45.50 0 1 0 0 0 0 0 0 1 11.0 7.0 170 1794 DL 12 CP 150.00 2.0 45.50 0 0 1 0 0 0 0 0 0 1 11.0 7.0 170 1794 DL 22 CP 165.00 2.0 45.50 0 0 1 0 0 0 0 0 0 1 11.0 7.0 170 1794 DL 22 CP 165.00 2.0 45.50 0 0 1 0 0 0 0 0 0 1 11.0 7.0 170 1794 DL 22 CP 165.00 2.0 45.50 0 0 1 0 0 0 0 0 0 0 1 11.0 7.0 170 1794 DL 22 CP 165.00 2.0 45.50 0 1 0 0 0 0 0 0 0 1 11.0 7.0 170 1794 DL 22 CP 165.00 2.0 45.51 0 1 0 0 0 0 0 0 0 1 11.0 7.0 170 1794 DL 22 CP 165.00 2.0 45.51 0 1 0 0 0 0 0 0 0 1 11.0 7.0 170 170 1794 DL 22 CP 165.00 2.0 45.51 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 170 170 1794 DL 22 CP 165.00 3.0 66.67 0 0 1 0 0 0 0 0 0 0 1 11.0 7.0 170 170 1794 DL 22 CP 165.00 3.0 66.67 0 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 170 170 1794 DL 22 CP 165.00 3.0 66.67 0 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 170 170 1794 DL 22 CP 165.00 3.0 66.67 0 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 170 170 1794 DL 22 CP 165.00 3.0 66.67 0 0 1 0 0 0 0 0 0 0 0 0 1							•	ļ	9	•	•	9	•	•		
159 1894 DL 8 CP 135.00 2.0 67.50 0 1 0 0 0 0 0 0 1 12.0 2.0 160 1894 DL 9 CP 163.00 1.0 163.00 0 1 0 0 0 0 0 0 0 1 6.0 2.0 161 1894 DL 10 CP 48.00 2.0 24.00 0 1 0 0 0 0 0 0 0 1 5.0 14.0 161 1894 DL 11 CP 181.00 4.0 45.25 0 1 0 0 0 0 0 0 0 1 5.0 14.0 163 1894 DL 12 CP 490.60 4.0 122.65 0 1 0 0 0 0 0 0 0 1 10.0 3.0 164 1894 DL 13 CP 990.00 8.0 122.50 0 1 0 0 0 0 0 0 1 10.0 3.0 165 1894 DL 14 CP 111.00 5.0 22.00 0 1 0 0 0 0 0 0 1 7.0 2.0 166 1894 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1894 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1894 DL 15 CP 385.00 8.0 48.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1894 DL 15 CP 18.00 6.0 1.47 0 1 0 0 0 0 0 0 0 1 11.0 7.0 166 1894 DL 15 CP 19.00 6.0 1.47 0 1 0 0 0 0 0 0 0 1 10.0 10.0 170 1894 DL 17 CP 19.00 5.0 2.0 65.00 0 1 0 0 0 0 0 0 1 10.0 10.0 170 1894 DL 15 CP 19.00 2.0 34.00 0 1 0 0 0 0 0 0 1 10.0 10.0 170 1894 DL 15 CP 19.00 2.0 34.00 0 1 0 0 0 0 0 0 1 10.0 10.0 170 1894 DL 15 CP 19.00 2.0 34.00 0 1 0 0 0 0 0 0 1 10.0 10.0 171 1994 DL 12 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 10.0 10.0 171 1994 DL 20 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 10.0 10.0 171 1994 DL 22 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 10.0 10.0 171 1994 DL 22 CP 162.00 2.0 45.50 0 1 0 0 0 0 0 0 0 1 10.0 7.0 173 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 0 1 10.0 10.0 10.0 1							:	:	3			2	•			
160 1994 DL 9 CP 163,00 1.0 163,00 6 1 0 0 0 0 0 0 1 6.0 20 161 1994 DL 10 CP 48.00 2.0 24.00 0 1 0 0 0 0 0 0 1 5.0 20 162 1994 DL 11 CP 181,00 4.0 45,25 0 1 0 0 0 0 0 0 0 1 5.0 14.0 163 1994 DL 12 CP 490,60 4.0 122,65 0 1 0 0 0 0 0 0 0 1 10.0 3.0 164 1994 DL 13 CP 980,00 8.0 122,50 0 1 0 0 0 0 0 0 1 7.0 8.0 165 1994 DL 13 CP 111,00 5.0 122,50 0 1 0 0 0 0 0 0 1 7.0 8.0 166 1994 DL 15 CP 385,00 8.0 44.13 0 1 0 0 0 0 0 0 1 11.0 7.0 167 1994 DL 15 CP 385,00 8.0 44.13 0 1 0 0 0 0 0 0 1 11.0 7.0 167 1994 DL 16 CP 10,00 6.0 1,67 0 1 0 0 0 0 0 0 1 11.0 7.0 169 1994 DL 17 CP 130,00 2.0 65,00 0 1 0 0 0 0 0 0 1 1.0 0.0 169 1994 DL 18 CP 64,00 2.0 34,00 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 19 CP 130,00 3.0 50,00 0 1 0 0 0 0 0 0 1 11.0 2.0 172 1994 DL 20 CP 37,00 2.0 45,50 0 1 0 0 0 0 0 0 1 11.0 2.0 173 1994 DL 21 CP 150,00 3.0 50,00 0 1 0 0 0 0 0 0 1 1.0 0 9.0 173 1994 DL 22 CP 165,00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 9.0 173 1994 DL 21 CP 165,00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 9.0 173 1994 DL 21 CP 165,00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 23 CP 200,00 3.0 66,67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 23 CP 271,25 6.0 45,21 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0							ï	i	č		i i			•		
161 1994 DL		1994 DL	9 CI	? 163.00	1.0	163.00	•	ī	Č		ò		ě	•		
163 1994 DL 12 CP 490.60 4.0 122.65 0 1 0 0 0 0 0 0 1 10.0 3.0 144 1994 DL 13 CP 900.00 8.0 122.50 0 1 0 0 0 0 0 0 1 7.0 8.0 145 1994 DL 13 CP 111.00 5.0 22.0 1 0 0 0 0 0 0 1 7.0 8.0 145 1994 DL 15 CP 385.00 8.0 44.13 0 1 0 0 0 0 0 0 1 11.0 7.0 167 1994 DL 16 CP 10.00 6.0 1.67 0 1 0 0 0 0 0 1 11.0 7.0 166 1994 DL 17 CP 130.00 6.0 1.67 0 1 0 0 0 0 0 1 8.0 3.0 166 1994 DL 17 CP 130.00 2.0 65.00 0 1 0 0 0 0 0 0 1 8.0 3.0 169 1994 DL 18 CP 68.00 2.0 55.00 0 1 0 0 0 0 0 0 1 11.0 2.0 170 1994 DL 19 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 19 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 20 CP 37.00 2.0 45.50 0 1 0 0 0 0 0 0 0 1 11.0 2.0 172 1994 DL 21 CP 162.00 2.0 45.50 0 1 0 0 0 0 0 0 0 1 10.0 7.0 173 1994 DL 22 CP 165.00 2.0 81.00 0 1 0 0 0 0 0 0 0 1 10.0 7.0 173 1994 DL 22 CP 165.00 2.0 81.00 0 1 0 0 0 0 0 0 0 1 11.0 7.0 174 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.23 6.0 45.21 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.23 6.0 45.21 0 1 0 0 0 0 0 0 0 0 1 11.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 1 12.0 10.0							0	1	•	•	•		• •	1		2.0
164 1994 DL 13 CP 980.00 8.0 122.56 0 1 0 0 0 0 0 1 7.0 8.0 165 1994 DL 14 CP 111.00 5.0 22.20 0 1 0 0 0 0 0 0 1 7.0 2.0 166 1994 DL 15 CP 385.00 8.0 44.13 0 1 0 0 0 0 0 0 1 11.0 7.0 166 1994 DL 16 CP 10.00 6.0 1.67 0 1 0 0 0 0 0 0 1 16.0 7.0 166 1994 DL 17 CP 150.00 2.0 65.00 0 1 0 0 0 0 0 1 8.0 3.0 169 1994 DL 18 CP 68.00 2.0 65.00 0 1 0 0 0 0 0 1 10.0 10.0 170 1994 DL 19 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 11.0 10.0 171 1994 DL 20 CP 87.00 2.0 43.50 0 1 0 0 0 0 0 0 1 11.0 10.0 171 1994 DL 20 CP 87.00 2.0 43.50 0 1 0 0 0 0 0 0 0 1 10.0 10.0 172 1994 DL 21 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 10.0 9.0 172 1994 DL 22 CP 165.00 2.0 43.50 0 1 0 0 0 0 0 0 0 1 10.0 9.0 173 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 9.0 174 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 1 0 0 0 0 0 0 0 0 0 1 10.0 7.0 176 176 176 176 176 176 176 176 176 176							•	1	9		•	9	•	1		
165 1994 DL 14 CP 111.00 5.8 22.20 8 1 0 0 8 8 0 1 7.0 2.0 166 1994 DL 15 CP 385.00 8.0 48.13 8 1 0 0 8 0 0 1 11.0 7.0 167 1994 DL 16 CP 10.00 6.0 1.67 8 1 0 0 0 8 0 0 1 6.0 7.0 168 1994 DL 17 CP 130.00 2.0 65.00 8 1 0 0 8 0 0 0 1 8.0 3.0 169 1994 DL 18 CP 68.00 2.0 34.00 8 1 0 0 0 0 0 0 1 10.0 10.0 170 1994 DL 19 CP 150.00 3.0 50.00 8 1 0 0 0 0 0 0 1 11.0 10.0 171 1994 DL 19 CP 150.00 3.0 50.00 8 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 20 CP 87.00 2.0 45.50 8 1 0 0 0 0 0 0 0 1 10.0 2.0 172 1994 DL 21 CP 162.00 2.0 81.00 0 1 0 0 0 0 0 0 0 1 10.0 2.0 173 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 7.0 174 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 22 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 12.0 10.0								;	,					:		
166 1994 DL 15 CP 16.00 6.0 1.67 0 1 0 0 0 0 0 1 11.0 7.0 167 1994 DL 16 CP 19.00 6.0 1.67 0 1 0 0 0 0 0 1 6.0 7.0 166 1994 DL 17 CP 19.00 2.0 65.00 0 1 0 0 0 0 0 0 1 10.0 10.0 169 1994 DL 18 CP 68.00 2.0 34.00 0 1 0 0 0 0 0 0 1 10.0 10.0 170 1994 DL 19 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 20 CP 87.00 2.0 45.50 0 1 0 0 0 0 0 0 1 10.0 2.0 172 1994 DL 21 CP 162.00 2.0 81.00 0 1 0 0 0 0 0 0 1 10.0 2.0 173 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 7.0 174 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 0 0 1 10.0 7.0 175 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 12.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 12.0 7.0							i	i						:		
167 1994 DL 14 CP 130.00 6.0 1.67 0 1 0 0 0 0 0 1 6.0 7.0 166 1994 DL 17 CP 130.00 2.0 65.00 0 1 0 0 0 0 0 0 1 1.0 3.0 169 1994 DL 18 CP 64.00 2.0 34.00 0 1 0 0 0 0 0 0 0 1 11.0 2.0 170 1994 DL 19 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 0 1 11.0 2.0 171 1994 DL 20 CP 87.00 2.0 43.50 0 1 0 0 0 0 0 0 0 1 3.0 2.0 172 1994 DL 21 CP 162.00 2.0 81.00 0 1 0 0 0 0 0 0 0 1 3.0 2.0 173 1994 DL 22 CP 165.00 2.0 81.00 0 1 0 0 0 0 0 0 0 1 10.0 7.0 174 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.25 6.0 4.0 41.25 0 1 0 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.25 6.0 4.521 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 12.0 10.0							•	1	•		i		ò	i		
169 1994 DL 18 CP 68.00 2.0 34.00 8 1 0 0 0 0 1 10.0 10.0 170 1994 DL 19 CP 150.00 3.0 50.00 0 1 0 0 0 0 0 1 11.0 2.0 171 1994 DL 29 CP 87.00 2.0 43.50 8 1 0 0 0 0 0 0 1 3.0 2.0 172 1994 DL 21 CP 162.00 2.0 81.00 0 1 0 0 0 0 0 0 0 1 3.0 2.0 173 1994 DL 22 CP 163.00 4.0 41.25 0 1 0 0 0 0 0 0 1 10.0 9.0 174 1994 DL 22 CP 163.00 4.0 41.25 0 1 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.23 6.0 45.21 0 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 0 1 10.0 7.0							•	1	•	•	•		•	ı		7.0
170 1994 DL 19 CP 150.00 3.0 50.00 8 1 0 0 0 0 1 11.0 2.0 171 1994 DL 20 CP 87.00 2.0 43.50 8 1 0 0 0 0 8 1 33.0 2.0 172 1994 DL 21 CP 162.00 2.0 81.00 8 1 0 0 0 0 0 0 1 10.0 2.0 173 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 1 10.0 9.0 174 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 8 1 0 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 8 1 0 0 0 0 0 0 0 1 12.0 10.0								1	9		•	9	•			
171 1994 DL 20 CP 87.00 2.0 43.50 0 1 0 0 0 0 1 3.0 2.0 172 1994 DL 21 CP 162.00 2.0 81.00 0 1 0 0 0 0 0 1 10.0 9.0 173 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 1 10.0 9.0 174 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 1 11.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 1 12.0 10.0							:	:						:		
172 1994 DL 21 CP 162.00 2.0 81.00 e 1 0 0 0 0 0 1 10.0 9.0 173 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 1 1.0.0 4.0 4.0 174 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 e 1 0 0 0 0 0 0 1 12.0 10.0							i	i	č		•					
173 1994 DL 22 CP 165.00 4.0 41.25 0 1 0 0 0 0 0 0 1 11.0 7.0 174 1994 DL 23 CP 200.00 3.0 66.67 0 1 0 0 0 0 1 11.0 7.0 175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 0 1 12.0 10.0	172							1	Ò	•		- 7	Š	i		
175 1994 DL 24 CP 271.25 6.0 45.21 0 1 0 0 0 0 0 1 10.0 7.0 176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 0 1 12.0 10.0							0	ŧ	•)	•	•	•	1	8.0	4.0
176 1994 DL 25 CP 47.00 3.0 15.67 0 1 0 0 0 0 1 12.0 10.0							0	1	9			9	0	1		
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							ě	i	č						12.0	7.0

Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations (continue).

Number N	Observation.	Year	Site	Questionnaire	Visites	Expenditures	Number	Esperátures	Upper	Donner	Promor	Stampedo.	Boos	Lower	Pyramid	Camping	Activity	Clavery
173 1944 D.L. 27 CF 113.2 1.0 40.40 0 1 0 0 0 1 72 14.0 18.0 18.0 1.0 0 0 0 0 1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Number			Number	Туро		of Days	per Duy		Lake	Reservoir	Reservoir	Reservoir		Lake	Vinter	Hours	Size
1996 D. 25 CP 354.00 7.6 25.77 0 1 0 0 0 0 1 2.10 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50									UTIK	DL	PR	SŘ	ÐR	LTR	M			
1806 1806 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816 1816									_	ı	_			•	_	1		
181 1994 DL 20 CT										;					-	!		2.0
182 1994 DL									ŏ	i	ŏ		Ĭ		•	i		2.0
184 194 DL	182	1994 DE	L	31 0		144.25	2.0	72.13	•	1	•		•	0	0	i		1.0
185 1990 DL									•	!	0	. 0			0	!		
186 1999 DL 35 CF										- :		, ,		0	-	1		
188 1994 DL 37 CP 39.00 3.0 10.00 0 0 0 0 0 1 10 2.0	186	1994 DE	L.	35 (*	25.00	2.0	12.50	Ŏ	i	Ŏ	Ŏ	Ŏ	ò	ō	i	7.0	6.0
199 1994 DL									0	!		0	•	•	0	!		
190 1984 DL) 0	•	0	٥	- 1		
192 1994 DL	190	1994 DI	L.	39 (73.00	3.0	24.33	ō	ī	. 0	ŏ	Ŏ	ŏ	ō	i	6.0	6.0
199 1994 DL									•	ı		•	•	•	0	ı		
194 194 DL									•	:				0	0	:		
196 1990 DL		1994 DI	L	1 8	DU	25,00			ě	i		Š	Ď	ŏ	ŏ	i		2.0
197 1994 DL									0	1	•		•	•	0	0		
1996 1994 DL. 6 DU 34.00 0.0 34.00 0.1 0 0 0 0 0 1.20 6.0 1.00 1.00 1.00 1.00 1.00 1.00 1.00									•	:		, ,		0				
1996 DL. 4 DU 95.00 0.0 1 0.0 0 0 0 0 0 0 0 3.0 10.0 200 1996 DL. 7 DU 37.00 0.0 27.00 0.0 1 0 0 0 0 0 0 0 0 0 3.0 10.0 201 1996 DL. 9 DU 3.00 0.0 3.00 0.0 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									i	j				Ů	. 0	ŏ		
201 1994 DL 2 DU 3,00 8,0 3,00 8 1 0 0 0 0 0 0 4,0 4.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0									0	1) 0	•	0	•	•	6.0	11.0
2002 1994 DL 9 DU 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00 0.0 3.00									•	!								
203 1994 DL 10 DU 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 7.00 0.0 0.										i		Š	Š		ŏ	ŏ		
205 1994 DL 13 DU 125.00 e.0 125.00 0 1 0 0 0 0 0 0 3.3.6 6.0 207 1994 DL 13 DU 22.50 e.0 22.50 0 1 0 0 0 0 0 0 0 0 3.3.6 6.0 208 1994 DL 14 DU 85.00 0 0 85.00 0 1 0 0 0 0 0 0 0 0 3.5 5.0 208 1994 DL 15 DU 43.00 0.0 43.00 0 1 0 0 0 0 0 0 0 0 0 0 3.5 5.0 209 1994 DL 16 DU 20.00 0.0 20.00 0 1 0 0 0 0 0 0 0 0 0 0 0 1.5 5.0 210 1994 DL 16 DU 20.00 0.0 20.00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1.5 2.0 210 1994 DL 17 DU 146.00 0.0 140.00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				10 1	DU			7.00		ī			ě	ě		ŏ	10.0	4.0
206 1994 DL 13 DU 22.50 6.0 22.50 0 1 0 0 0 0 0 3.0 6.0 207 1994 DL 15 DU 43.00 0.0 43.00 0 1 0 0 0 0 0 0 0									•	!			•	0	•	•		
207 1994 DL 14 DU 85,00 0.0 85,00 0.1 0.0 0.0 0.0 3.5 3.0 208 1994 DL 15 DU 45,00 0.0 43,00 0.1 0.0 0.0 0.0 0.0 48,44.0 209 1994 DL 16 DU 20,00 0.0 20,00 0.1 0.0 0.0 0.0 0.0 1.5 2.0 210 1994 DL 17 DU 146,00 0.0 140,00 0.1 0.0 0.0 0.0 0.0 0.0 0.0 1.5 2.0 211 1994 DL 18 DU 25,00 0.0 25,00 0.1 0.0 0.0 0.0 0.0 0.0 10,0 2.0 212 1994 DL 19 DU 35,00 0.0 35,00 0.1 0.0 0.0 0.0 0.0 10,0 2.0 213 1994 DL 20 DU 5,00 0.0 5,00 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0									ě	1				ĭ				
100 1994 DL 16 DU 20.00 0.0 20.00 0 1 0 0 0 0 0 0 0 0 0 6.50 9.0 110 1994 DL 17 DU 140.00 0.0 140.00 0 1 0 0 0 0 0 0 0 0 0 0 6.50 9.0 111 1994 DL 18 DU 25.00 0.0 25.00 0 1 0 0 0 0 0 0 0 0 10.0 22.0 112 1994 DL 19 DU 35.00 0.0 35.00 0 1 0 0 0 0 0 0 0 0 10.0 22.0 113 1994 DL 20 DU 5.00 0.0 5.00 0 1 0 0 0 0 0 0 0 0 10.0 22.0 114 1994 DL 21 DU 60.00 0.0 5.00 0 1 0 0 0 0 0 0 0 0 12.0 12.0 115 1994 DL 22 DU 11.00 0.0 11.00 0 1 0 0 0 0 0 0 0 0 0 0	207	1994 DI	L	14 0	DU	85.00	●.0	85.00	•	i	0	Ō	ě	•	ŏ	ŏ		
210 1994 DL 17 DU 14400 0.0 14000 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0									0	1	0		•	•	0	•		
211 1994 DL 18 DU 25.00 0.0 25.00 0 1 0 0 0 0 0 100 2.0 212 1994 DL 19 DU 35.00 0.0 35.00 0 1 0 0 0 0 0 0 0 5.2 213 1994 DL 20 DU 5.00 0.0 5.00 0.0 1 0 0 0 0 0 0 0 5.2 214 1994 DL 21 DU 60.00 0.0 60.0 60.0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										:				•	0	:		2.0
212 1994 DL 29 DU 35.00 0.0 35.00 0 1 0 0 0 0 0 0 7.0 16.0 214 1994 DL 21 DU 68.00 8.0 60.00 0 1 0 0 0 0 0 0 0 0 0 1.6 214 1994 DL 22 DU 11.00 0.0 11.00 0 1 0 0 0 0 0 0 0 0 0 0		1994 DI	L	18 (DU	25.00	0.0	25.00	ŏ	i	ŏ	Ŏ	•	ŏ	ŏ	ŏ		
214 1994 DL 21 DU 64.00 8.0 60.00 0 1 0 0 0 0 0 0 0 8.0 728 215 1994 DL 22 DU 11.00 0.0 11.00 0 1 0 0 0 0 0 0 0 0 0 0									0	1	•		•	•	0	•		2.0
215 1994 DL									•	:	•			•		•		
216 1994 DL 23 DU 31.00 0.0 31.00 0 1 0 0 0 0 0 0 0 3.0 6.8 217 1994 DL 24 DU 18.00 0.0 10.00 0 1 0 0 0 0 0 0 0 0 0 0 0									ŏ	i	ŏ	Ö		ŏ	ŏ	š		
218 1994 DL 25 DU 81.65 0.0 81.65 0 1 0 0 0 0 0 0 0 25 4.0 219 1994 DL 26 DU 5.00 0.0 5.00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									•	1	•	•	•	•	Ō	ō	3.0	6.0
219 1994 DL 26 DU 5.00 0.0 5.00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									0	:	0			0	0	•		
220 1994 DL 27 DU 177.99 0.0 177.99 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									ŏ	i	Ö			ů	ů	Š		
222 1994 DL 29 DU 149.51 0.0 149.51 0 1 0 0 0 0 0 0 0 0 3.0 5.0 223 1994 DL 30 DU 12.00 0.0 12.00 0 1 0 0 0 0 0 0 0 0 3.0 2.0 2.0 224 1994 DL 31 DU 156.06 0.0 156.06 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									•	1	0	0	·	Ō	o	ō		
223 1994 DL 30 DU 12.00 0.0 12.00 0 1 0 0 0 0 0 0 0 3.0 2.0 2.4 1994 DL 31 DU 156.06 0.0 156.06 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									0	· !	. 0			•	0	•		
224 1994 DL 31 DU 136.06 0.0 156.06 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									ě	i	ĭ							
226 1994 DL 33 DU 21:00 0.0 21:80 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									0	ι	0	Ò	•	ě	•	ŏ		8.0
227 1994 DL 34 DU 5.00 0.0 5.00 0 1 0 0 0 0 0 0 5.0 2.0 228 1994 DL 35 DU 50.00 0.0 5.00 0 1 0 0 0 0 0 0 5.0 3.0 2.0 229 1994 DL 36 DU 11.00 0.0 11.00 0 1 0 0 0 0 0 0 0 0 0 5.0 3.0 2.0 290 1994 DL 37 DU 15.00 0.0 15.00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									•	Į.	•	•	•		0	0		
228 1994 DL 35 DU 50.00 0.0 50.00 0 1 0 0 0 0 0 0 5.0 3.0 229 1994 DL 36 DU 11.00 0.0 11.00 0 1 0 0 0 0 0 0 0 0 0 0										;						•		
229 1994 DL 36 DU 11.00 0.0 11.00 0 0 0 0 0 0 0 0 0 4.0 2.0 230 1994 DL 37 DU 15.00 0.0 15.00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	228	1994 DE	L	35 I	DU	50.00	0.0	50.00	ō	i	i	, a		·	·	š		
231 1994 DL 38 DU 4.50 0.0 4.50 0 1 0 0 0 0 0 3.0 1.0 232 1994 DL 39 DU 137.00 0.0 137.00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									0	ı		•	•	0	•	•	4.0	2.0
232 1994 DL 39 DU 137,80 0.0 137,00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										ŀ		•	•		•	•		
233 1994 DL 46 DU 2.00 0.0 2.00 0 1 0 0 0 0 0 6.0 7.0 234 1994 DL 41 DU 5.00 0.0 5.00 0 1 0 0 0 0 2.0 2.0 2.5 1994 PR 1 CP 177.70 4.0 44.43 0 0 1 0 0 0 1 9.0 2.0	232	1994 DI	L	39 I	DU	137.00	0.0	137.00	·	i	Ö				0	:		4.0
235 1994 PR 1 CP 177.70 4.0 44.45 0 0 1 0 0 0 1 5.0 2.0									0	1	0			ě	·	ō	6.0	7.0
100 100 100 100 100 100 100 100 100 100									0	l a			0	0	0	0		
									ŏ	ŏ	í	0				1		

Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations (continue).

			. •		•		•						•	•			
Observation Number	Year	Site	Questionnaire Number	Vinitor Type	Expenditures	N amber of Days	Expenditures per Doy	Upper Truckee River	Donner Lake	Promer Reservois	Stanspede Reservoir	Bosa Reservoir	Lower Trackso River	Pyromid Lake	Comping Visitor	Activity Hours	Group Sixe
								UTR	DL	?R	SR	BR	LTR	PL			
237	1994 PR	t	3 (193.00	2.0	96.50	•	0	1			0			10.0	9.0
238	1994 PR		46		114.00	14.0		ě	ō	i	Ŏ	ě	Ŏ		i	12.0	3.0
239	1994 PR		5 (125.00	7.0		•	0	ı	. •	•	0	. 0	1	1.0	2.0
240	1994 PR		6 (185.00	2.0		0	0	ļ	0	•	•		!	7.0	3.0
241 242	1994 PR 1994 PR		7 (245.00 6.00	3.0 1.0		•		1			0	. 0		4.0 5.0	7.0 6.0
243	1994 PR		•		279.00	3.0			ů	:				_	:	3.0	1.0
244	1994 PR		10 (1,00	2.0		š	ŏ	i			ŏ		i	12.0	2.0
245	1994 PR		ii d		8.00	3.0		Ŏ	ō	ì	. 0	Ō	ō	Ŏ	ī	9.0	4.0
246	1994 PR		12 (31.00	4.0		•	•	ı	. 0	•	0	• •	1	6.0	2.0
247	1994 PR		13 (63.00	1.0		•	0	1	0	•	0		1	6.0	2.0
248	1994 PR		14 (87.50	4.0		•		j		•	0		1	8.0	1.0
24 9 250	1994 PR 1994 PR		15 (16 (522.00 64.00	4.0 9.0		:					0		- :	12.0 12.0	2.0 6.0
251	1994 PR		17 (244.00	3.0		ĭ	ŏ	;			ĭ		;	10.0	8.0
252	1994 PR		18 (76.00	2.0			ě	i			ě	ě	í	8.0	2.0
253	1994 PR	l .	19 (16.00	2.0		•	0	1	•	•	•	•	1	12.0	3.0
254	1994 PR		20 (120.00	7.0		•	•	,	0	•	•	•	1	12.0	1.0
255	1994 PR		21 (426.00	12.0		•	•	į		•	•	•	,	8.0	4.0
256 257	1994 PR 1994 PR		22 (30.00 24.00	5.0 2.0			:	:			0		:	8.0 7.0	4.0 8.0
258	1994 PR		24		96.00	3.0		š	ĭ	:			ĕ			9.0	7.0
259	1994 PR		25		59.25	4.0		ě	ō	ī	Ŏ	•	ě	ě	ī	5.0	5.0
260	1994 PR		26 (24.00	2.0		0	•	1	•	•	•	•	1	2.0	4.0
261	1994 PR		27		136.00	2.0		0	•			•	•		i	5.0	2.0
262	1994 PR		28 (16.00	2.0		•	•	!		•	0		!	10.0	5.0
263 264	1994 PR 1994 PR		29 (30 (74.00 66.00	3.0 2.0				:		:	•	. 0	!	10.0 6.0	2.0 3.0
265	1994 PR			DU DU	1.00	0.0		ĭ	ŏ	i						4.0	1.0
266	1994 PB			DÜ	88.00	0.0		ŏ	ě	i	ě	i	ŏ		ĭ	3.0	4.0
267	1994 SR		1		11.00	2.0	5.50	ō	Ó	0	ì	ō	ō	Ó	i	11.0	2.0
266	1994 SR		2 (232.00	3.0		•	•	0	ı	•	•	•	ı	8.5	2.0
269	1994 SR		3 (11.00	1.0		0	•	0	1	•	0		1	8.0	2.0
270 271	1994 SR 1994 SR		4 6		72.00 22.88	4.0 2.0			•	•	!!		0			9.0	2.0
272	1994 83		6		300.00	3.0		Š	ř		(;		Ÿ		;	6.0 10.0	2.0 4.0
273	1994 SA		7		242.00	2.0		ŏ	ě		i i	Š	ŏ	Š	•	8.0	5.0
274	1994 SB		3		237.00	7.0		ě	ō	i	i	ŏ	ě	Ŏ	i	8.0	2.0
275	1994 SR		9 (11.00	1.0		0	0	٥	,		•	• •	i	10.0	3.0
276	1994 SR		10		16.00	4.0		0	0	0) !	•	•	•	ı	4.0	6.0
277	1994 SB 1994 SB		11 (12 (227.00 135.00	14.0 4.0		•	•		!	•	•	•	!	5.0	2.0
278 279	1994 58		13		133.90 40.00	4.0			v		: :				:	4.0 10.0	4.0
200	1994 SM		14		43.00	6.0		ŏ	š	ŏ	: i	Š			;	7.0	6.0 4.0
281	1994 83		15		16.50	3.0		ŏ	ŏ	ō	i	i	ě		i	7.0	3.0
262	1994 83		16		95.00	5.0		0	•	0	ì	ě	ò	i	i	5.0	2.0
283	1994 33		17		132.00	2.0		•	•	•	1	•	•	•	1	12.0	8.0
284	1994 58		18		142.50	8.0		•	•)	•	•	•	ı	8.0	3.0
285 286	1994 SII 1994 SII		19 (20 (3108.00 165.00	14.0 5.0		•			!!	•	•	•	ļ.	4.0	4.0
287	1994 SE		21		178.08	3.0		^			:		•		!	8.0 12.0	16.0
288	1994 58		22		44.00	5.0		ŏ	ŏ	ŏ			•		1	7.0	4.0 2.0
289	1994 SB	R	23 (CP .	322.00	14.0		ó	ŏ	ò	i	•	ŏ		i	8.0	2.0
290	1994 53		24		48.00	3.0		•	•	0	ì	ō	Ó	i	i	9.0	4.0
291	1994 53		25 (149.00	4.6		•	0	0	1	•	•	•	ı	9.0	2.0
292 293	1994 SR 1994 SR		26 (27 (142.00 190.06	2.0 3.0		0	0	0	1	•	•	•	ı	11.0	3.0
293	1994 SB		28		152.00	3.0		A					0		!	19.0 12.6	4.0 8.0
295	1994 88		29		92.00	2.0		•	Ĭ		;	•	ŭ		:	7.0	1.0 2.0
						2.0		•	_	•	•	•	•	•		7.0	¥.¥

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Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations (continue).

Observation Number	Year	Sito	Questicameiro Namber	Vinitor Type	Expenditures	Number of Days	Expenditures per Day	Upper Truckee River	Donner Lake	Promot Reservois	Sumpede Rouveir	Boss Reservoir	Lower Truckee River	Pyramid Lake	Comping Visitor	Activity Hours	Circup Size
						240	,	UTR	DL	PR	SR	BR	LTR	PL			
294	1994 88	ı.	30 C	*	163.00	4.0	40.75	0		•	1	٥			1	7.0	6.0
297	1994 53	t	31 C	*	78.00	6.0	13.00	ō	ō	i	i	ō	Č		i	\$.0	2.0
298 299	1994 SI 1994 SI		32 0		106.50	4.0		0	•	•			9	•	ļ	10.0	4.0
300	1994 \$1		33 C 34 C		30.00 22.00	2.0 4.0		, v			1					8.0 8.0	5.0 2.0
301	1994 SE		35 0		68.00	2.0		ŏ	ě	ě	i	i			i	11.0	4.0
302	1994 53		36 C		153.00	4.0		0	•	•	1	•	•	•	ı	12.0	20.0
903 304	1994 SE 1994 SE		37 C 38 C		11.00 19.00	1.0 2.0		0	•		1	•	9		!	2.0	2.0
305	1994 SE		39 0		481.00	20.0		ŏ	ě	ě	:	ě			:	8.0 7.0	3.0 5.0
306	1994 SE	R.	40 0	2	330.00	4.0	\$2.50	ō	0	i	i	•	Č	, i	i	12.0	9.0
307	1994 SJ		41 0		206.00	2.0		0	•	•	ı ı		9	0	į.	12.0	6.0
308 309	1994 SI 1994 SI		42 C 43 C		72.00 163.00	2.0 6.0		0	•		:				į,	12.0 5.0	7.0 2.0
310	1994 88		44 0		253.00	3.0		ŏ	ŏ	ŏ	i	ŏ		Š	i	8.0	4.0
311	1994 SE		45 0		183.00	3.0		0	0	0	3	•	Č	Ò	i	12.0	2.0
312 313	1994 SI 1994 SI		46 C 47 C		57.00 78.50	3.0 7.0		0	0	0		•	9	0 0	!	7.0 6.0	2.0
314	1994 SI		48 0		33.00	4.0		ŏ	ï	š	i				;	7.0	2.0 9.0
315	1994 SE	R	49 0	7	103.00	3.0	34.33	ō	ō	Ŏ	i			ò	i	12.0	4.0
316	1994 SI		50 0		267.50	4.0		0	0	0	1	0	9	•	1	8.0	4.0
317 318	1994 SE 1994 SE		51 C 52 C		180.00 47.00	6.0 2.0		0	0	0		. 0			1	8.0 5.0	11.0 2.0
319	1994 53		53 C		86.00	3.0		ě	ŏ	ě	•				•	3.0 11.0	4.0
320	1994 \$3		54 0		242.00	8.0		•	0	0	i	0	i		i	12.0	2.0
321 322	1994 SE 1994 SE		55 C 56 C		[14.00	2.0		0	•	0	-	•	9		•	10.0	2.0
323	1994 SI		57 C		483.00 64.00	10.0 2.0		,	0	0						11.0 12.0	2.0 4.0
324	1994 51		58 (*	226.50	4.0		ŏ	ŏ	ĭ	i		,		i	12.0	22.0
325	1994 51		59 (134.00	3.0		0	•	•	1	•		Ò	i	12.0	4.0
326 327	1994 SI 1994 SI		60 C		142.50 440.00	4.0 3.0		0	•	•	1	•	9	•	!	12.0	5.0
324	1994 51		42 6		343.50	7.0		ž	ě	·		:			:	12.0 7.0	25.0 2.0
329	1994 SJ		43 0	.	3.50	2.0	1.75	ō	ó	ě	i	ě		i	i	4.0	10.0
330	1994 SJ 1994 Bi		40		96.00	3.0		0	•	•	1	•	•	•	,	1.0	5.0
331 332	1994 BI		10		960.00 250.00	7.0 1.0		0	•		0	•	2		1	12.0	10.0
333	1994 BI		3 6		237.00	2.0		ŏ	ŏ	ě	ě	; ;			;	12.0 10.0	2.0 6.0
334	1994 BI		40		6.00	2.0		0	0	0	0	i	i	ò	i	11.9	3.0
335 336	1994 B1 1994 B1		5 0		89.00 66.00	3.0 2.0		•	•	•	•	ı.	9	•	ı,	5.5	3.6
337	1994 BI		7 0		66.00	1.0		Ö			9	:			:	7.0 4.0	3.0 20.0
338	1994 BI		8.0		12.00	2.0		ŏ	ō	ŏ	ŏ	i		Š	i	9.0	4.0
339	1994 BI		9 C		86.00	2.0		0	•	0	0	•	•	•	1	12.0	3.0
340 341	1994 Bi 1994 Bi		11 0		58.00 122.00	3.0 1.0		0	:		0	1	9	•	1	5.0	1.0
342	1994 Bi		12 0		206.00	14.0		ŏ	ŏ	ŏ	š	:			;	8.0 8.0	4.9 9.0
343	1994 BI		13 0		52.00	1.0		٥	•		Ó	i		i	i	4.0	2.0
344 345	1994 BI 1994 Bi		14 C 15 C		207.00 458.00	14.0 2.0		0	•	•	•	L	•	•	1	1.0	3.0
346	1994 BI		16 0		353.00	2.0		0	,			l l	9		!	12.0 12.0	2.0
347	1994 BI	R	17 0	7	12.00	3.0		ŏ	ĭ	ŏ	š		č		:	10.0	l4.0 4.0
348	1994 BI		1.0		10.00	0.0		0	0	0	ò	i		Ď	;	3.0	3.0
349 350	1994 BI 1994 BI		2 D		15.00 100.00	0.0 0.0		0	0	0	0	l	•	•	0	5.0	2.0
351	1994 BI		46		100.00	0.0		0	9			l i	2	•	0	8.0 8.0	25.0
352	1994 BI		5 D	W	20.00	0.0	20.00	ŏ	ŏ	i	ŏ	i		. 4	4	4.0	6.0 2.0
353 354	1994 BI		6.0		50.00	0.0		0	•	0	0	i		, o	i	4.0	9.0
334	1994 BI	K.	7 D		60.00	0.0	60.00	0	•								

Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations (continue). Upper Trackee River UTR of Days Donner Lake Lower Pyramid Lake Camping Visitor Activity Group Size Type per Dey River LTR DŁ PR SR. BR PL. 355 1994 BR 8 DU 20.00 356 1994 BR 9 DU 25.00 0.0 25.00 5.0 5.0 2.0 357 1994 BR 10 DU 22.00 0.0 12.0 22.00 358 1994 BR 11 DU 70.00 70.00 10.0 1.0 359 1994 BR 12 DU 0.0 13.0 95.00 95.00 6.0 360 361 1994 BR 13 DU 8.00 0.0 8.00 4.0 2.0 1994 BR I4 DU 45.00 0.0 45.00 3.0 6.0 2.8 362 1994 PL 1 CP 120.00 3.0 40.00 11.9 363 364 365 366 1994 PL 500.00 4.0 125.00 12.0 9.0 1994 PL 3 CP 10.00 3.0 3.33 15.0 10.0 1994 PL 2.0 4 CP 150.00 75.00 4.0 9.0 1994 PL 5 CP 83.75 2.0 41.88 7.0 8.0 367 368 1994 PL 6 CP 84.00 2.0 43.00 3.0 9.0 1994 PL 125.00 2.0 62.50 5.0 4.0 369 1994 PL 1 C \$6.00 3.0 18.67 7.0 2.0 370 1994 PL 3.0 9 CP 15.00 5.00 6.0 4.0 1994 PL 371 10 CP 130.00 3.0 43.33 5.0 12.0 372 1994 PL 11 07 100.00 2.0 50.00 14.0 12.0 373 1994 PL 12 CP 105.00 2.0 52.50 12.0 4.0 13 CP 374 1994 PL 150.00 2.8 75.00 2.0 4.0 5.0 375 1994 PL 14 CP 445.00 4.0 111.25 12.0 1994 PL 15 CP 376 314.00 2.0 157.00 11.0 6.0 377 1994 PL 16 CP 253.00 84.33 4.0 12.0 378 1994 PL 17 CP 155.00 10.0 15.50 3.0 6.0 379 1994 PL 18 CP 300.00 4.0 75.00 11.0 5.0 380 381 1994 PL 19 CP 152.00 76.00 4.0 12.0 1994 PL 1 DU 20.00 0.0 20.00 4.0 6.0 382 1994 PL 2 DU 240.00 0.0 240.00 7.0 26.0 383 1994 PL 3 DU 50.00 50.00 3.0 5.0 384 385 1994 PL 4 DU 6.00 0.0 6.00 1994 PL 5 DU 65.00 65.00 0.0 6.0 9.0 3.6 386 387 1994 PL 6 DU 72.00 72.60 4.0 1994 PL 7 DU 60.00 0.0 60.00 0.0 1994 PL 8 DU 388 36.00 36.00 0.0 2.0 4.0 1994 PL 9 DU 70.00 0.0 70.00 5.0 5.0 390 1994 PL 10 DU 116.00 0.0 116.00 2.0 5.0 11 DU 391 1994 PL 45.00 0.0 45.00 4.8 2.6 2.0 8.0 1994 PL 12 DU 0.0 392 70.00 70.00 8.0 393 1994 PL 13 DU 41.00 0.0 41.00 8.0 394 1994 PL I4 DU 25.00 0.0 25.00 3.0 395 1994 PL IS DU 40.00 0.0 40.00 4.0 7.0 1994 PL 16 DU 25.00 0.0 25.00 3.0 2.0 397 1994 PL 17 DU 50.00 0.0 50.00 4.0 2.0 5.0 396 399 1994 PL 18 DU 20.00 0.0 20.00 2.0 1994 PL 19 DU 75.80 0.0 75.00 7.0 1994 PL 20 DU 15.00 0.0 400 401 402 403 404 405 406 15.00 4.0 10.0 21 DU 1994 PL \$1.00 0.0 51.00 6.0 4.0 1994 PL 22 DU 121.00 121.00 6.0 13.0 76.00 1994 PL 23 DU 76.00 0.0 6.0 14.0 1994 PL 34 DU 35.00 0.0 35.00 2.0 3.0 1994 PL 25 DU 95.00 95.00 .. 15.0 1994 PL 26 DU 25.00 0.0 25.00 3.0 5.0 1994 PL 27 DU 12.00 0.0 12.00 7.6 1994 PL 28 DU 55.00 0.0 55.00 4.0 6.0 1994 PL 29 DU 36.00 0.0 36.00 8.0 15.0 30 DU 410 1994 PL 36.00 0.0 36.00 6.0 4.0 6.0 2.6 6.0 1994 PL 31 DU 25.00 25.00 6.0 1994 PL 32 DU 15.00 0.0 15.00 5.0 1994 PL 33 DU 0.0 90.00

Table 7.5-1. Camping and Day Use Visitor Expenditure Function Observations (continue).

Observation Number	Year	Site	Questionnaire Number	Visitor Type	Especiture	Number of Days	Exponditures per Day	Upper Truckee River	Donner Lake	Promo: Reservoir	Stampedo Reservoir	Boca Reservoir	Lower Truckee River	Pyromid Lako	Comping Visitor	Activity Hours	Group Sáze
						•	•	UTR	DL	PR	SR	BK	LTR	PL.			
414	1994 PI		34 1	NI I	67.00	0.0	67.00			0	•	•			6	3.0	8.0
415	1994 P		35		19.00	0.0		š			ŏ	ě	i	i	ŏ	5.0	2.0
416	1994 PI		36 1		55.00	0.0		ŏ	ŏ	ŏ	ě	ě	ě	i	ŏ	10.0	6.0
417	1994 P1		37 1		130.00	0.0		Ŏ	ō	ō	Õ	•	ě	i	Ŏ	3.0	5.0
418	1994 PI	L	38 1		31.00	0.0	31.00	0	0	0	•		0	·	0	5.0	5.0
419	1994 PI	L	39 (35.00	0.0	35.00	0	0	0	•	•		· ı	0	4.0	5.0
420	1994 PI		40 (65.00	8.0	45.00	0	0	0		•	0		0	8.0	10.0
421	1994 PI		41 1		195.00	8.0		•	0	•	•	•	9	ı	0	8.0	13.0
422	1994 P		42 1		70.00	9.0		•	•	0	•	•	•	ı	0	5.0	6.0
423	1994 P		43 1		25.00	0.0		0	0	0	•	•	0	ļ	0	2.0	2.0
424	1994 P1		44 !		35.00	0.0		•		•	•	•	•	!	•	5.0	11.0
425	1994 P		45 [57.00	0.0		:					•		•	6.0	7.0 2.0
426 427	1994 Pi 1994 Pi		46 1 47 1		50.00 7.00	0.0 0.8								:	•	12.0 3.5	5.0
428	1994 M		48		190.00	0.0		Š	v			×	Š	:		5.0	15.0
429	1994 P		49		17.00	9.0		š	ŏ		š	ĭ	ŏ	i	š	4.0	3.0
430	1994 P		50		30.80	0.0		ě	ō	ŏ	ŏ	•	ŏ	ī	ō	5.0	2.0
431	1994 P		St i		28.00	0.0		ō	ō	Õ	ě	ō	ě	i	ō	5.0	2.0
432	1994 P	£.	52 1	DU	36.00	0.0	36.00	0	0	0	•	0	٥	ı	0	10.0	10.0
433	1995 D			SHO-DU	10.59	9.0	10.59	•	ı	0	0	•	0	0	0	4.0	10.0
434	1995 D			SHO-DU	73.33	9.0		•	ι	0	0	•	0	•	0	2.0	4.0
435	1995 D			HO-DU	40.43	0.0		•	ŧ	•	0		•	0	0	6.0	2.0
436	1995 Đ			SHO-DU	137.50	0.0		0	1	0	0	•	•	0	•	12.0	4.0
437	1995 D			SHO-DU	44.29	0.0		0	!	•	•	•	0	•	•	1.0	3.0
438	1995 D			SHO-DU	90.94	0.0		•	!	0	0	•	0	0	•	4.0	3.0
439	1995 D 1995 D			SHO-DU SHO-DU	115.00 105.00	0.0 0.0				•	9	•		•		5.0	4.0
440 441	1995 D			SHO-DU	164.44	0.0			:	Ÿ			•			6.0	4.0 4.0
442	1995 D			NO-DU	42.86	0.0		ř	:	Š						12.8 6.0	12.0
443	1995 D			MO-DU	137.14	9.0		ĭ	;	ĭ			ž			9.0	4.0
444	1995 D			NHO-DU	76.67	0.0			i	ŏ		ĭ	ĭ	Š		1.0	3.0
445	1995 D			SHO-DU	85.00	0.0		ŏ	i	ě	Č	·	ŏ			6.0	10.0
446	1995 D	L	14 1	SHO-DU	262.50	0.0	262.50	0	ī	0	i	•	ŏ		Ŏ	7.0	4,0
447	1995 D			HO-DU	40.59	9.0		•	1	•	0	•	•	•		4.0	4.0
448	1995 D			EHO-DU	116.84	€.6		•		0	•	•	•		•	9.0	5.0
449	1995 D			HO-DU	79.00	9.0		•	1	•	•	•	•	•	•	12.0	4.0
450	1995 D			SHO-DU	96.00	0.0		· ·	. !	•	•	•	•	0	•	4.0	1.0
451	1995 D			SHO-DU	125.00	9.0		•	!	•	0	•	•	•	•	7.0	2.0
452	1995 D			NHO-DU	24.67	9.0 9.0				•	0	•	•	•	•	3.0	6.0
453 454	1995 D 1995 D			RHO-DU RHO-DU	67.50 106.67	0. 0		:		•		•	•	•	•	5.0	4.0
455	1995 D			SHO-DU	153.33	9.0			:	•		•			•	6.0	5.5
456	1995 D			SHO-DU	53.08	0.0			;		×	•				7.0 12.0	4.0 9.0
457	1995 D			VHR-DU	423.33	0.0		ŏ	·	š	ě	ï	·	·		6.0	4.0
458	1995 D			VHR-DU	141.25	0.0		ŏ	i	ă		š				7.0	4.0
459	1995 D			VIDE-DU	359.37	●.0	359.37	ō	i	ō	ě	ě		ě	ŏ	12.0	5.0
460	1995 D	XL.		VHR-DU	296.43	0.0		0	i	ō	ě	ŏ	ŏ	ě	ě	8.0	7.0
461	1995 D			VHIIL-DU	375.00	0.0		•	1	0	•	•	ė	•		5.0	6.0
462	1995 D	NL.	6	VHR-DU	178.57	0.0	178.57	0	1	0		0	0	•	•	12.0	4.0

Table 7.5-2. Camping and Day Use Visitor Expenditure Function Values.

	Upper Truckee River	Donner Lake	Prosser Reservoir	Stampede Reservoir	Bocs Reservoir	Lower Truckee River	Pyramid Lake
Camping Visitor Group Expenditures per Day	\$53.63	\$36.97	\$27.90	\$39.61	\$34.40	\$16.55	\$36.32
Day Use Visitor Group Expenditures per Day	\$84,55	\$52.00	\$34.07	\$52.78	\$48.85	\$28.89	\$56.38

7.6. Formulation of the Model Equations

Model formulation incorporates the above descriptive statistics and expenditure function values. The variable that drives the model is the end of the month reservoir storage levels at Donner Lake and Prosser, Stampede, and Boca Reservoirs. Relative to the storage levels at Donner Lake and Prosser, Stampede, and Boca Reservoirs the model calculates the annual number of camping and day use visitors and the annual expenditures of the camping and day use visitors.

There are eleven functions within the model. Using only end of the month reservoir storage levels as the input into the model, the functions then generate the following data.

Visitation Relative to End of the Month Reservoir Storage Levels

Annual Visitation Relative to End of the Month Reservoir Storage Levels

Annual Number of Camping Visitors

Annual Number of Day Use Visitors

Annual Number of Camping Visitor Groups

Annual Number of Day Use Visitor Groups

Annual Camping Visitor Expenditures

Annual Day Use Visitor Expenditures

Annual Number of Camping and Day Use Visitors

Annual Camping and Day Use Visitor Expenditures

Annual Camping and Day Use Visitor Expenditures by Category

Each of the functions calculate data either by use of a single equation or multiple equations. Simultaneously, data is generated by one function and inputted into another function and so on. Throughout the model, there are twenty-seven equations with thirty-eight variables.

Visitation Relative to End of the Month Reservoir Storage Levels

The visitation relative to end of the month reservoir storage levels is derived by assigning a scale value to the end of the month reservoir storage level and then calculating a percentage of visitation corresponding to the assigned scale value. Each of these functions are based on data taken from the survey.

The scale values for reservoir storage levels are shown in Table 7.6-1. Scale values for Donner Lake range from high to low or 5 to 1. These scale values correspond to reservoir storage levels at Donner Lake from 9,660 acre-feet to 5,796 acre-feet. Scale values for Prosser, Stampede, and Boca Reservoirs range from high to low or 11 to 1. These scale values correspond to reservoir storage levels at Prosser Reservoir from 29,840 acre-feet to 0 acre-feet, at Stampede Reservoir from 226,500 acre-feet to 0 acre-feet, and at Boca Reservoir from 40,870 acre-feet to 0 acre-feet. These reservoir storage levels are stated in the survey questionnaire.

The end of the month reservoir storage level is assigned a scale value through the following equation.

If
$$A_i \ge B_{it} \ge C_i$$
 storage level, then scale value $D_{it} = \alpha_i + \beta_i$ (B_{it}) (7.6-1)

where:

A; is the high storage level for reservoir i

Bit is the end of the month storage level for reservoir i in month t

C_i is the low storage level for reservoir i

Dit is the scale value for the end of the month storage level for

reservoir i in month t
is the scale value constant term for reservoir i

α_i is the scale value constant term for reservoir i
 β_i is the scale value slope coefficient term for reservoir i

This equation is formulated to linearly interpolate an end of the month storage level for a reservoir during any month to a scale value.

Separate equations for reservoir storage levels are formulated for Donner Lake and Prosser, Stampede, and Boca Reservoirs. These equations are provided below by reservoir.

Donner Lake

If $9,660 \ge B_{it} \ge 5,796$ storage level, then scale value $D_{it} = -5.000000 + .001035$ (B_{it}) If $5,796 > B_{it} \ge 0$ storage level, then scale value $D_{it} = 1.000000$

Prosser Reservoir

If $29,840 \ge B_{it} \ge 0$ storage level, then scale value $D_{it} = 1.000000 + .000335$ (B_{it})

Stampede Reservoir

If $226,500 \ge B_{it} \ge 0$ storage level, then scale value $D_{it} = 1.000000 + .000044$ (B_{it})

Boca Reservoir

If $40,870 \ge B_{it} \ge 0$ storage level, then scale value $D_{it} = 1.000000 + .000245$ (B_{it})

End of the month reservoir storage levels at Donner Lake and Prosser, Stampede, and Boca Reservoirs for April through October and Other Months are given in Table 7.6-2. April through October is considered to be the recreation season in a given year. Other Months are January, February, March, November, and December of the given year. The reservoir storage levels are taken in total for April through October and as an average for the Other Months. The scale values for these end of the month reservoir storage levels are calculated using the above equations and shown by reservoir in Table 7.6-3.

The percentage of visitation corresponding to the scale value of an end of the month reservoir storage level is based on the indicated number of visits per respondent for reservoir storage levels taken from the survey.

The indicated number of visits per respondent for reservoir storage levels are provided in Table 7.6-4. Also provided for reservoir storage levels are percentages of visitation.

Given that the percentage of visitation for reservoir storage level 1 is 100% at Donner Lake and Prosser, Stampede, and Boca Reservoirs. The visitation declines from 100% for reservoir storage level 1 to 82.64% for reservoir storage level 5 at Donner Lake, to 8.25% for reservoir storage level 11 at Prosser Reservoir, to 15.58% for reservoir storage level 11 at Stampede Reservoir, and to 4.68% for reservoir storage level 11 at Boca Reservoir.

The percentage of visitation corresponding to the scale value is then calculated through the following equation.

If
$$E_i \ge D_{it} > F_i$$
 scale value, then visitation $G_{it} = \alpha_i + \beta_i (D_{it})$ (7.6-2)

where:

E; is the high scale value for reservoir i

Dit is the scale value for the end of the month storage level for

reservoir i in month t

F_i is the low scale value for reservoir i

Git is the percentage of visitation corresponding to the scale value for the end of the month storage level for reservoir i in month t

α; is the percentage of visitation constant term for reservoir i

βi is the percentage of visitation slope coefficient term for reservoir i

This equation is formulated to linearly interpolate a scale value for an end of the month storage level for a reservoir during any month to a percentage of visitation.

Separate equations for scale value and reservoir storage levels are formulated for Donner Lake and Prosser, Stampede, and Boca Reservoirs. These equations are provided below by reservoir.

Donner Lake

```
If 5 \ge D_{it} > 4 scale value, then visitation G_{it} = .935691 + .012862 ( D_{it})
```

If
$$4 \ge D_{it} > 3$$
 scale value, then visitation $G_{it} = .819936 + .041801$ (D_{it})

If
$$3 \ge D_{it} > 2$$
 scale value, then visitation $G_{it} = .733119 + .070740$ (D_{it})

If
$$2 \ge D_{it} > 1$$
 scale value, then visitation $G_{it} = .778135 + .048232$ (D_{it})

If $1 = D_{it}$ scale value, then visitation $G_{it} = .826367$

Prosser Reservoir

```
If 11 \ge D_{it} > 10 scale value, then visitation G_{it} = 1.000000 + .000000  (D_{it}) If 10 \ge D_{it} > 9 scale value, then visitation G_{it} = .702970 + .029703 (D_{it}) If 9 \ge D_{it} > 8 scale value, then visitation G_{it} = .495050 + .052805 (D_{it}) If 8 \ge D_{it} > 7 scale value, then visitation G_{it} = .415842 + .062706 (D_{it}) If 7 \ge D_{it} > 6 scale value, then visitation G_{it} = .646865 + .029703 (D_{it}) If 6 \ge D_{it} > 5 scale value, then visitation G_{it} = .151815 + .112211 (D_{it}) If 5 \ge D_{it} > 4 scale value, then visitation G_{it} = .547855 + .033003 (D_{it}) If 4 \ge D_{it} > 3 scale value, then visitation G_{it} = -1.419142 + .524752 (D_{it}) If 3 \ge D_{it} > 2 scale value, then visitation G_{it} = -0.062706 + .072607 (D_{it}) If 2 \ge D_{it} > 1 scale value, then visitation G_{it} = .082508 + .000000 (D_{it}) If 1 = D_{it} scale value, then visitation G_{it} = .082508
```

Stampede Reservoir

```
If 11 \ge D_{it} > 10 scale value, then visitation G_{it} = .785714 + .019481 (D_{it}) If 10 \ge D_{it} > 9 scale value, then visitation G_{it} = .720779 + .025974 (D_{it}) If 9 \ge D_{it} > 8 scale value, then visitation G_{it} = .457792 + .055195 (D_{it}) If 8 \ge D_{it} > 7 scale value, then visitation G_{it} = .483766 + .051948 (D_{it}) If 7 \ge D_{it} > 6 scale value, then visitation G_{it} = .529221 + .045455 (D_{it}) If 6 \ge D_{it} > 5 scale value, then visitation G_{it} = .347403 + .191558 (D_{it}) If 5 \ge D_{it} > 4 scale value, then visitation G_{it} = .545455 + .012987 (D_{it}) If 4 \ge D_{it} > 3 scale value, then visitation G_{it} = .974026 + .392857 (D_{it}) If 3 \ge D_{it} > 2 scale value, then visitation G_{it} = .126623 + .025974 (D_{it}) If 2 \ge D_{it} > 1 scale value, then visitation G_{it} = .133117 + .022727 (D_{it}) If 1 = D_{it} scale value, then visitation G_{it} = .155844
```

Boca Reservoir

```
If 11 \ge D_{it} > 10 scale value, then visitation G_{it} = 1.000000 + .000000  ( D_{it} ) If 10 \ge D_{it} > 9 scale value, then visitation G_{it} = .117117 + .088288 ( D_{it} ) If 9 \ge D_{it} > 8 scale value, then visitation G_{it} = .295495 + .068468 ( D_{it} ) If 8 \ge D_{it} > 7 scale value, then visitation G_{it} = -.093694 + .117117 ( D_{it} ) If 7 \ge D_{it} > 6 scale value, then visitation G_{it} = .284685 + .063063 ( D_{it} ) If 6 \ge D_{it} > 5 scale value, then visitation G_{it} = -.180180 + .140541 ( D_{it} ) If 5 \ge D_{it} > 4 scale value, then visitation G_{it} = .441441 + .016216 ( D_{it} ) If 4 \ge D_{it} > 3 scale value, then visitation G_{it} = -.192793 + .174775 ( D_{it} ) If 3 \ge D_{it} > 2 scale value, then visitation G_{it} = .034234 + .099099 ( D_{it} ) If 2 \ge D_{it} > 1 scale value, then visitation G_{it} = -.138739 + .185586 ( D_{it} ) If 1 = D_{it} scale value, then visitation G_{it} = .046847
```

Visitation relative to end of the month reservoir storage levels for Donner Lake and Prosser, Stampede, and Boca Reservoirs for April through October and Other months are shown in Table 7.6-5. The percentages of visitation for the end of the month reservoir storage levels are calculated using the above equations. Again, percentages of visitation correspond to scale values which in turn correspond to end of the month reservoir storage levels.

Survey year visitation relative to end of the month reservoir storage levels are the same because of end of the month reservoir storage levels. The percentages of visitation are shown in Table 7.6-6. Visitation would differ under alternative reservoir storage levels.

Visitation and end of the month reservoir storage level relationships for Donner Lake and Prosser, Stampede, and Boca Reservoirs are also shown in Figures 7.6-1, 7.6-2, 7.6-3, and 7.6-4.

Table 7.6-1. Scale Values for Reservoir Storage Levels.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boon Renervoir
Reservoir Storage Level 1 in Acre-feet	9,660	29,840	226,500	40,870
Reservoir Storage Level 2 in Acre-feet	8,694	26,856	203,850	36,783
Reservoir Storage Level 3 in Acre-feet	7,728	23,872	181,200	32,696
Reservoir Storage Level 4 in Acre-feet	6,762	20,888	158,550	28,609
Reservoir Storage Level 5 in Acre-feet	5,796	17,904	135,900	24,522
Reservoir Storage Level 6 in Acre-Sect		14,920	113,250	20,435
Reservoir Storage Level 7 in Acre-feet		11,936	90,600	16,348
Reservoir Storage Level 6 in Acre-feet		8,952	67,950	12,261
Reservoir Storage Level 9 in Acre-feet		5,968	45,300	8,174
Reservoir Storage Level 10 in Acre-foot		2,984	22,650	4,087
Reservoir Storage Level 11 in Acre-feet		0	0	0
Scale Value for Reservoir Storage Level 1	5,00	11.00	11.00	11.00
Scale Value for Reservoir Storage Level 2	4.00	10.00	10.00	10.00
Scale Value for Reservoir Storage Level 3	3.00	9.00	9.00	9.00
Scale Value for Reservoir Storage Level 4	2.00	8.00	8.00	8.00
Scale Value for Reservoir Storage Level 5	1.00	7.00	7.00	7.00
Scale Value for Reservoir Storage Level 6		6.00	6.00	6.00
Scale Value for Reservoir Storage Level 7		5.00	5.00	5.00
Scale Value for Reservoir Storage Level 8		4.00	4.00	4.00
Scale Value for Reservoir Storage Level 9		3.00	3.00	3.00
Scale Value for Reservoir Storage Lev. 10		2.00	2.00	2.00
Scale Value for Reservoir Storage Level 11		1.00	1.00	1.00

Table 7.6-2. End of the Month Reservoir Storage Levels.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boca Reservoir
April End of the Month Reservoir Storage Level in Acre-Feet	4,930	9,767	80,186	26,763
May End of the Month Reservoir Storage Level in Acre-Feet	9,300	16,414	113,577	37,473′
hans End of the Month Reservoir Storage Level in Acre-Feet	9,600	20,957	166,955	38,557
July End of the Month Reservoir Storage Level in Acre-Feet	9,420	22,110	177,424	38,084
August End of the Month Reservoir Storage Level in Acre-Feet	8,880	21,691	174,288	34,582
September End of the Month Reservoir Storage Level in Acre-Feet	5,300	14,394	172,442	23,927
Outober End of the Month Reservoir Storage Level in Acre-Feet	3,150	10,050	170,696	16,419
Other Months Average End of the Month Reservoir Storage Level in Acre-Feet	3,366	9,854	113,263	9,561
January End of the Month Reservoir Storage Level in Acre-Feet	3,290	9,827	73,944	5,247
February End of the Month Reservoir Storage Level in Acre-Feet	3,320	9,723	75,751	4,396
Merch End of the Month Reservoir Storage Level in Acre-Feet	4,290	9,642	76,677	2,955
November End of the Month Reservoir Storage Level in Acre-Feet	2,980	9,981	170,433	17,042
December End of the Month Reservoir Storage Level in Acre-Feet	2,950	10,098	1 69 ,510	18,163

Table 7.6-3. Scale Values for End of the Month Reservoir Storage Levels.

	Donner Laks	Proseer Reservoir	Stampede Reservoir	Boca Reservoir
Scale Value for April End of the Month Reservoir Storage Level	1.00	4.27	4.54	7.55
Scale Value for May End of the Month Reservoir Storage Level	4.63	6.50	6.01	10.17
Scale Value for June End of the Month Reservoir Storage Level	4.94	8.02	8.37	10.43
Scale Value for July End of the Month Reservoir Storage Level	4.75	8.41	1.83	10.32
Scale Value for August End of the Month Reservoir Storage Level	4.19	8.27	8.69	9.46
Scale Value for September End of the Month Reservoir Storage Level	1.00	5.82	8.61	6.85
Scale Value for October End of the Month Reservoir Storage Level	1.00	4.37	8.54	5.02
Scale Value for Other Months End of the Month Reservoir Storage Level	1.00	4.30	6.00	3.34

Table 7.6-4. Indicated Number of Visits per Respondent for Reservoir Storage Levels.

•	Donner Leke	Prosecr Reservoir	Stampede Reservoir	Boca Reservoir
Number of Visits per Respondent for Reservoir Storage Level 1	3.11	3.03	3.06	5.55
Number of Visits per Respondent for Reservoir Storage Level 2	3.07	3.03	3.02	y 5.55
Number of Visits per Respondent for Reservoir Storage Level 3	2.94	2.94	294	5.06
Number of Visits per Respondent for Reservoir Storage Level 4	2.72	2.78	2.77	4.68
Number of Visits per Respondent for Reservoir Storage Level 5	2.57	2.59	2.61	4.03
Number of Visits per Respondent for Reservoir Storage Level 6		2.50	2.47	3.68
Number of Visits per Respondent for Reservoir Storage Level 7		2.16	1.68	2.90
Number of Visits per Respondent for Reservoir Storage Level \$		2.06	1.84	2.81
Number of Visits per Respondent for Reservoir Storage Level 9		0.47	0.63	1.84
Number of Visits per Respondent for Reservoir Storage Level 10		0.25	0.55	1.29
Number of Visits per Respondent for Reservoir Storage Level 11		0.25	0.48	0.26
Percentage of Visitation for Reservoir Storage Level 1	100.00%	100.00%	100.00%	100.00%
Percentage of Visitation for Reservoir Storage Level 2	98.71%	100.00%	98.05%	100.00%
Percentage of Visitation for Reservoir Storage Level 3	94.53%	97.03%	95.45%	91.17%
Percentage of Visitation for Reservoir Storage Level 4	87.46%	91.75%	89.94%	84.32%
Percentage of Vinitation for Reservoir Storage Level 5	82.64%	85.48%	84.74%	72.61%
Percentage of Visitation for Reservoir Storage Level 6		82.51%	80.19%	66.31%
Percentage of Visitation for Reservoir Storage Level 7		71.29%	61.04%	52.25%
Percentage of Visitation for Reservoir Storage Level 8		67.99%	59.74%	50.63%
Percentage of Visitation for Reservoir Storage Level 9		15.51%	20.45%	33.15%
Percentage of Visitation for Reservoir Storage Level 10		8.25%	17.86%	23.24%
Percentage of Vinitation for Reservoir Storage Level 11		8.25%	15.58%	4.68%

Table 7.6-5. Visitation Relative to End of the Month Reservoir Storage Levels.

	Donner	Promer	Stampede	Boos
•	Lake	Reservoir	Reservoir	Reservoir
Visitation Relative to April End of the Month Reservoir Storage Level	82.64%	68.88%	60.44%	79.01%
Visitation Relative to May End of the Month Reservoir Storage Level	99.52%	83.99%	80.26%	100.00%
Visitation Relative to June End of the Month Reservoir Storage Level	99.92%	91.86%	91.98%	100.00%
Vinitation Relative to July End of the Month Reservoir Storage Level	99.68%	93.90%	94.53%	100.00%
Vinitation Relative to August End of the Month Reservoir Storage Level	98.96%	93.16%	93 77%	95.22%
Visitation Relative to September End of the Month Reservoir Storage Level	\$2.64%	80.51%	93.32%	71.68%
Visitation Relative to October End of the Month Reservoir Storage Level	82.64%	69.20%	92.89%	52.48%
Visitation Relative to Other Morths End of the Month Reservoir Storage Level	82.64%	68.98%	80.20%	39.07%

Table 7.6-6. Survey Year Visitation Relative to End of the Month Reservoir Storage Levels.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boos Reservoir
Visitation Relative to April End of the Mouth Reservoir Storage Level	\$2.64%	68.88%	60.44%	79.01%
Visitation Relative to May End of the Month Reservoir Storage Level	99.52%	E3.99%	80.26%	100.00%
Visitation Relative to June End of the Month Reservoir Storage Level	99.92%	91.86%	91.98%	100.00%
Visitation Relative to July End of the Month Reservoir Storage Level	99.68%	93.90%	94.53%	100.00%
Visitation Relative to August End of the Month Reservoir Storage Level	98.96%	93.16%	93.77%	95.22%
Visitation Relative to September End of the Mouth Reservoir Storage Level	82.64%	80.51%	93.32%	71.68%
Visitation Relative to October End of the Month Reservoir Storage Level	82.64%	69.20%	92.89%	52.48%
Visitation Relative to Other Months End of the Month Reservoir Storage Level	82.64%	68.98%	80.20%	39.07%

Figure 7.6-1. Donner Lake Visitation and End of the Month Reservoir Storage Level Relationship.

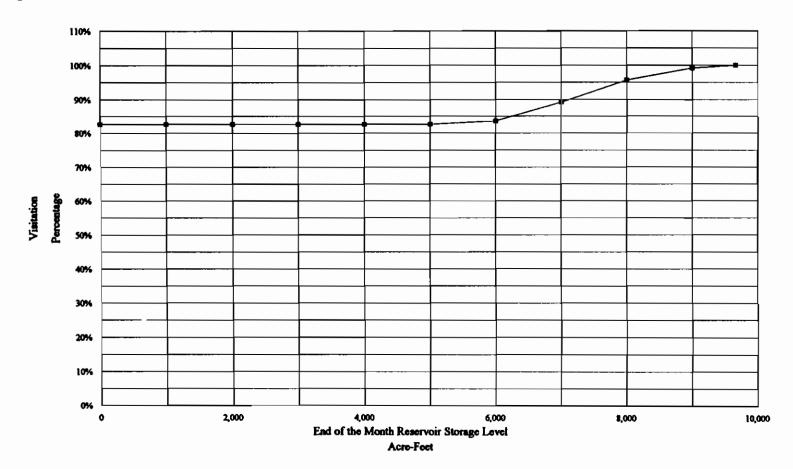


Figure 7.6-2. Prosser Reservoir Visitation and End of the Month Reservoir Storage Level Relationship.

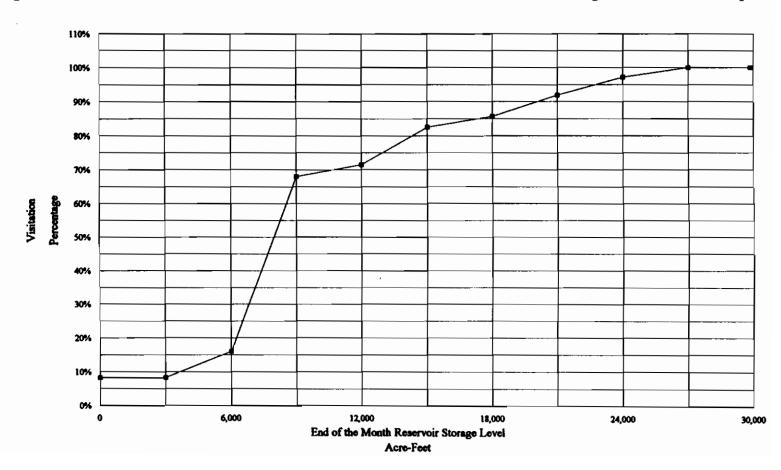
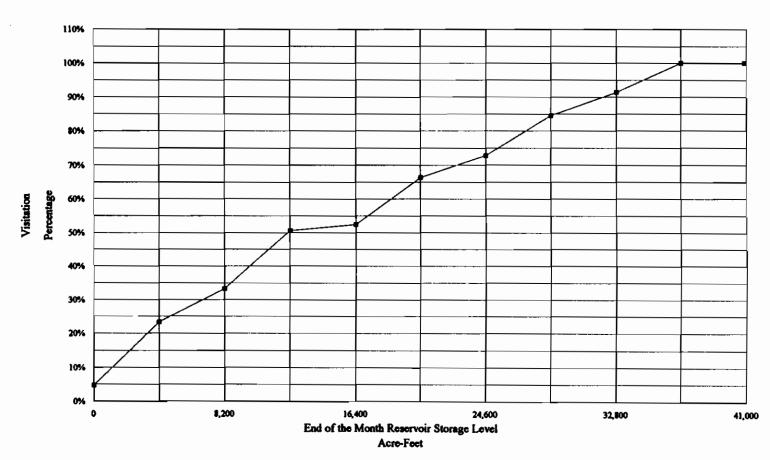


Figure 7.6-4. Boca Reservoir Visitation and End of the Month Reservoir Storage Level Relationship.



Annual Visitation Relative to End of the Month Reservoir Storage Levels

The annual visitation relative to end of the month reservoir storage levels is derived by weighting the scale values for the end of the month reservoir storage levels for the reservoir by the expected annual visitation to the reservoir for the year and then calculating an annual percentage of visitation.

The scale values are weighted by survey year annual visitation by respondents to reservoirs and expected annual visitation to the reservoirs for the year.

The survey year annual visitation by respondents to the reservoirs is shown in Table 7.6-7. The expected annual visitation is calculated through the following equation.

$$H_{it} = \frac{G_{it} (H_{it}^{o})}{G_{it}^{o}}$$

$$(7.6-3)$$

where:

H_{it} is the expected annual visitation to reservoir i in month t

Git is the percentage of visitation corresponding to the scale value for the end of the month storage level for reservoir i in month t

H_{it}o is the survey year annual visitation by respondents to reservoir i in month t

o is the survey year percentage of visitation corresponding to the scale value for the end of the month storage level for reservoir

i in month t

The expected annual visitation is shown in Table 7.6-8. These values are the same as the values for the survey year since the end of the month reservoir storage levels are the same. The expected annual visitation would differ under alternative reservoir storage levels.

The weights for the expected annual visitation are then calculated through the following equation.

$$I_{it} = \frac{H_{it}}{\sum H_{it}}$$
 (7.6-4)

where:

Iit is the weight of the expected annual visitation to

reservoir i in month t

Hit is the expected annual visitation to reservoir i in month t

These weights are shown in Table 7.6-9. These weights show the annual pattern of visitation to the reservoirs.

The annual scale values for the reservoirs are then calculated through the following equation.

$$D_i = \sum_{t} D_{it} (I_{it})$$
 (7.6-5)

where:

D_i is the annual scale value for reservoir i

Dit is the scale value for the end of the month storage level for

reservoir i in month t

Iit is the weight of the expected annual visitation to

reservoir i in month t

The weighted scale values are shown by month and by reservoir in Table 7.6-10. The summation of these weighted scale values is the annual scale value. Corresponding to an annual scale value is an annual percentage of visitation.

The annual percentage of visitation corresponding to the annual scale value is then calculated through the following equation.

If
$$E_i \ge D_i \ge F_i$$
 scale value, then visitation $G_i = \alpha_i + \beta_i (D_i)$ (7.6-6)

where:

E; is the high scale value for reservoir i

D_i is the annual scale value for reservoir i

F_i is the low scale value for reservoir i

G_i is the annual percentage of visitation corresponding to the annual scale value for reservoir i

α; is the annual percentage of visitation constant term for reservoir i

 β_i is the annual percentage of visitation slope coefficient term for

reservoir i

This equation is formulated to linearly interpolate an annual scale value to an annual percentage of visitation.

Separate equations for annual scale value and reservoir storage levels are formulated for Donner Lake and Prosser, Stampede, and Boca Reservoirs. These equations are provided below by reservoir.

Donner Lake

If $5 \ge D_{it} > 4$ scale value, then visitation $G_{it} = .935691 + .012862$ (D_{it})

If $4 \ge D_{it} > 3$ scale value, then visitation $G_{it} = .819936 + .041801$ (D_{it})

If $3 \ge D_{it} > 2$ scale value, then visitation $G_{it} = .733119 + .070740$ (D_{it})

If $2 \ge D_{it} > 1$ scale value, then visitation $G_{it} = .778135 + .048232$ (D_{it})

If $1 = D_{it}$ scale value, then visitation $G_{it} = .826367$

Prosser Reservoir

```
If 11 \ge D_{it} > 10 scale value, then visitation G_{it} = 1.000000 + .000000  (D_{it}) If 10 \ge D_{it} > 9 scale value, then visitation G_{it} = .702970 + .029703 (D_{it}) If 9 \ge D_{it} > 8 scale value, then visitation G_{it} = .495050 + .052805 (D_{it}) If 8 \ge D_{it} > 7 scale value, then visitation G_{it} = .415842 + .062706 (D_{it}) If 7 \ge D_{it} > 6 scale value, then visitation G_{it} = .646865 + .029703 (D_{it}) If 6 \ge D_{it} > 5 scale value, then visitation G_{it} = .151815 + .112211 (D_{it}) If 5 \ge D_{it} > 4 scale value, then visitation G_{it} = .547855 + .033003 (D_{it}) If 4 \ge D_{it} > 3 scale value, then visitation G_{it} = -1.419142 + .524752 (D_{it}) If 3 \ge D_{it} > 2 scale value, then visitation G_{it} = -0.062706 + .072607 (D_{it}) If 2 \ge D_{it} > 1 scale value, then visitation G_{it} = .082508 + .000000 (D_{it}) If 1 = D_{it} scale value, then visitation G_{it} = .082508
```

Stampede Reservoir

```
If 11 \ge D_{it} > 10 scale value, then visitation G_{it} = .785714 + .019481 (D_{it}) If 10 \ge D_{it} > 9 scale value, then visitation G_{it} = .720779 + .025974 (D_{it}) If 9 \ge D_{it} > 8 scale value, then visitation G_{it} = .457792 + .055195 (D_{it}) If 8 \ge D_{it} > 7 scale value, then visitation G_{it} = .483766 + .051948 (D_{it}) If 7 \ge D_{it} > 6 scale value, then visitation G_{it} = .529221 + .045455 (D_{it}) If 6 \ge D_{it} > 5 scale value, then visitation G_{it} = .347403 + .191558 (D_{it}) If 5 \ge D_{it} > 4 scale value, then visitation G_{it} = .545455 + .012987 (D_{it}) If 4 \ge D_{it} > 3 scale value, then visitation G_{it} = .974026 + .392857 (D_{it}) If 3 \ge D_{it} > 2 scale value, then visitation G_{it} = .126623 + .025974 (D_{it}) If 2 \ge D_{it} > 1 scale value, then visitation G_{it} = .133117 + .022727 (D_{it}) If 1 \ge D_{it} scale value, then visitation G_{it} = .133117 + .022727 (D_{it}) If 1 \ge D_{it} scale value, then visitation G_{it} = .155844
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Boca Reservoir

```
If 11 \ge D_{it} > 10 scale value, then visitation G_{it} = 1.000000 + .000000  ( D_{it} ) If 10 \ge D_{it} > 9 scale value, then visitation G_{it} = .117117 + .088288 ( D_{it} ) If 9 \ge D_{it} > 8 scale value, then visitation G_{it} = .295495 + .068468 ( D_{it} ) If 8 \ge D_{it} > 7 scale value, then visitation G_{it} = -.093694 + .117117 ( D_{it} ) If 7 \ge D_{it} > 6 scale value, then visitation G_{it} = .284685 + .063063 ( D_{it} ) If 6 \ge D_{it} > 5 scale value, then visitation G_{it} = -.180180 + .140541 ( D_{it} ) If 5 \ge D_{it} > 4 scale value, then visitation G_{it} = .441441 + .016216 ( D_{it} ) If 4 \ge D_{it} > 3 scale value, then visitation G_{it} = -.192793 + .174775 ( D_{it} ) If 3 \ge D_{it} > 2 scale value, then visitation G_{it} = .034234 + .099099 ( D_{it} ) If 2 \ge D_{it} > 1 scale value, then visitation G_{it} = -.138739 + .185586 ( D_{it} ) If 1 = D_{it} scale value, then visitation G_{it} = .046847
```

Annual visitation relative to end of the month reservoir storage levels for Donner Lake and Prosser, Stampede, and Boca Reservoirs are given in Table 7.6-11. An annual percentage of visitation corresponds to an annual scale value which in turn corresponds to end of the month reservoir storage levels.

Survey year annual visitation relative to end of the month reservoir storage levels are the same because of end of the month reservoir storage levels being the same. The annual percentages of visitation are shown in Table 7.6-12. Annual visitation would differ under alternative reservoir storage levels.

Annual patterns of visitation for Donner Lake and Prosser, Stampede, and Boca Reservoirs are also shown in Figures 7.6-5, 7.6-6, 7.6-7, and 7.6-8.

Table 7.6-7. Survey Year Annual Visitation by Respondents by Month by Reservoir.

	Donner Leke	Prosser Reservoir	Stampede Reservoir	Boos Reservoir
Number of Respondents that Visit during April	20		19	24
Number of Respondents that Visit during May	35 ·	15	41	53
Number of Respondents that Visit during June	71	26	86	69
Number of Respondents that Visit during July	103	35	83	75
Number of Respondents that Visit during August	96	33	97	78
Number of Respondents that Visit during September	44	17	43	51
Number of Respondents that Visit during October	16	11	21	29
Number of Respondents that Visit during Other Months	21	3	2	11
Total	406	148	392	390

Table 7.6-8. Expected Annual Visitation by Month by Reservoir.

	Donner Lake	Promer Reservoir	Stampede Reservoir	Boca Reservoir
Expected Visitation during April	20	8	19	24
Expected Visitation during May	35	15	41	53
Expected Visitation during June	71	26	86	69
Expected Visitation during July	103	35	83	75
Expected Visitation during August	96	33	97	78
Expected Visitation during September	44	17	43	51
Expected Visitation during October	16	11	21	29
Expected Visitation during Other Months	21	3	2	11
Total	406	. 148	392	390

Table 7.6-9. Weights for Expected Annual Visitation by Month by Reservoir.

Reservoir Reservoir Reservoir	Promeer Reservoir	Domner Lake	
5.41% 4.85% 6.159	5.41%	4.93%	Weight for expected Visitation during April
10.14% 10.46% 13.59%	10.14%	8.62%	Weight for expected Visitation during May
17.57% 21.94% 17.69%	17.57%	17.49%	Weight for expected Visitation during June
23.65% 21.17% 19.23%	23.65%	25.37%	Weight for expected Visitation during July
	22.30%	23.65%	Weight for expected Visitation during August
	11.49%	10.84%	Weight for expected Visitation during September
10.000	•••••	3.94%	Weight for expected Visitation during October
2.03% 0.51% 2.82%		5.17%	Weight for expected Visitation during Other Months
5.41% 4.85% 10.14% 10.46% 17.57% 21.94% 23.65% 21.17% 22.30% 24.74% 11.49% 10.97% 7.43% 5.36%	5.41% 10.14% 17.57% 23.65% 22.30% 11.49% 7.43%	4.93% 8.62% 17.49% 25.37% 23.65% 10.84% 3.94%	Weight for expected Visitation during May Weight for expected Visitation during June Weight for expected Visitation during July Weight for expected Visitation during August Weight for expected Visitation during September Weight for expected Visitation during Cotober

Table 7.6-10. Annual Scale Values by Reservoir.

	Dorsner Lake	Prosser Reservoir	Stampede Reservoir	Boon Reservoir
Weighted Scale Value for April End of the Month Reservoir Storage Level	0.05	0.23	0.22	0.46
Weighted Scale Value for May End of the Month Reservoir Storage Level	0.40	0.66	0.63	1.38
Weighted Scale Value for June End of the Month Reservoir Storage Level	0.86	1.41	1.84	1.85
Weighted Scale Value for July End of the Month Reservoir Storage Level	1.20	1.99	1.87	1.98
Weighted Scale Value for August End of the Month Reservoir Storage Level	0.99	1.84	2.15	1.89
Weighted Scale Value for September End of the Month Reservoir Storage Level	0.11	0.67	0.94	0.90
Weighted Scale Value for October End of the Month Reservoir Storage Level	0.04	0.32	0.46	0.37
Weighted Scale Value for Other Months End of the Month Reservoir Storage Level	0.05	0.09	0.03	0.09
Annual Scale Value	3.71	7.21	8.14	8.93

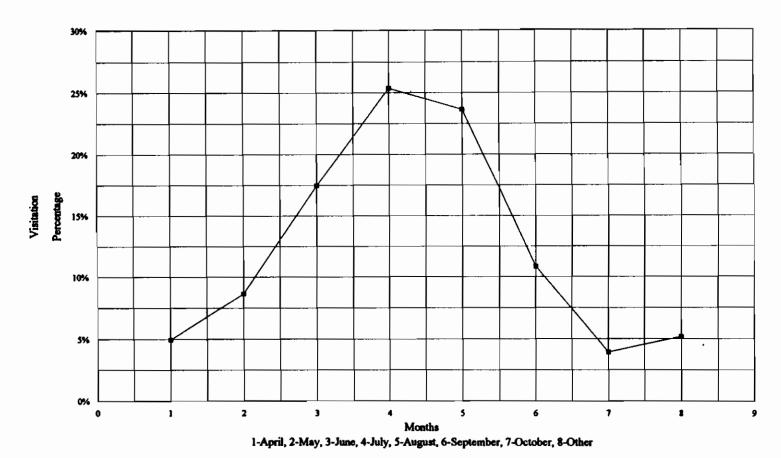
Table 7.6-11. Annual Visitation Relative to End of the Month Reservoir Storage Levels.

	Donner	Prouser	Stampede	Boos
	Lake	Reservoir	Reservoir	Reservoir
Annual Visitation Relative to the End of the Month Reservoir Storage Levels	97.49%	86.80%	90.71%	90.69%

Table 7.6-12. Survey Year Annual Visitation Relative to End of the Month Reservoir Storage Levels.

	Donner	Prosser	Stampede	Boos
	Lake	Reservoir	Reservoir	Reservoir
Annual Visitation Relative to the End of the Month Reservoir Storage Levels	97.49%	86.80%	90.71%	90.69%

Figure 7.6-5. Donner Lake Annual Pattern of Visitation.



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Figure 7.6-7. Stampede Reservoir Annual Pattern of Visitation.

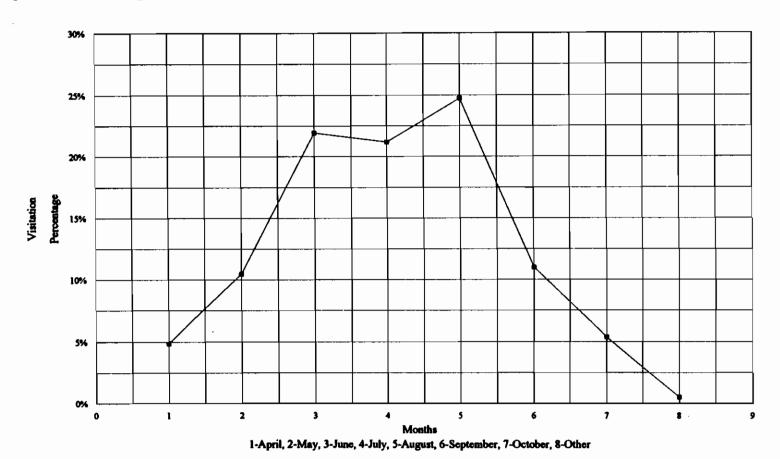
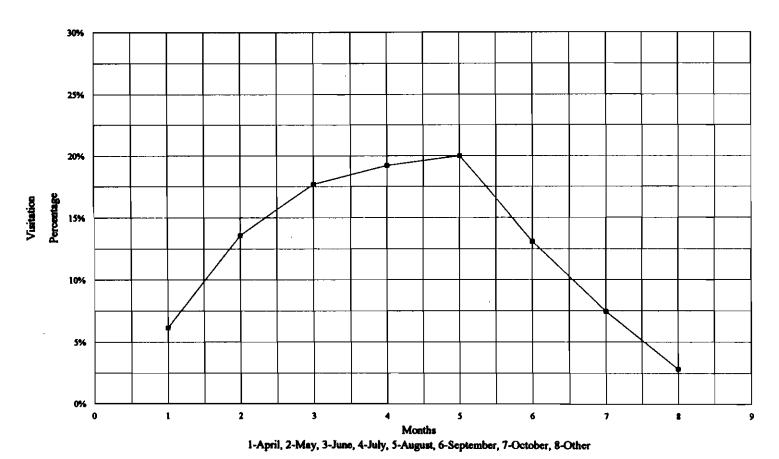


Figure 7.6-8. Boca Reservoir Annual Pattern of Visitation.



Annual Number of Camping Visitors

The annual number of camping visitors to the reservoirs is derived by taking the survey year number of camping visitors for the campgrounds at the reservoirs and multiplying by the ratio of annual visitation for the given year to the annual visitation for survey year. The annual number of camping visitors is distributed monthly by the weights of the expected annual visitation to show the annual pattern of visitation.

The survey year number of camping visitors for the campgrounds at the reservoirs are taken from California State Park and U.S. Forest Service data. This data is shown in Table 7.6-13. There are twelve campgrounds in the area. One campground is near Donner Lake. Four campgrounds are near Prosser Reservoir. Another three campgrounds are near Stampede Reservoir. And the remaining four campgrounds are near Boca Reservoir. The annual number of camping visitors is provided for each campground.

The annual number of camping visitors for the given year is calculated through the following equation.

$$J_{i} = J_{i}^{0} \frac{G_{i}}{G_{i}^{0}}$$

$$(7.6-7)$$

where:

J_i is the annual number of camping visitors for reservoir i

J_i^o is the survey year annual number of camping visitors for reservoir i

G_i is the annual percentage of visitation corresponding to the annual scale value for reservoir i

G_i^o is the survey year annual percentage of visitation corresponding to the annual scale value for reservoir i

The equation is formulated so that if the annual percentage of visitation for the given year is greater than the survey year annual percentage of visitation then the annual number of camping visitors for the given year is also greater. Likewise if the annual percentage of visitation for the given year is less than the survey year annual percentage of visitation then the annual number of camping visitors for the given year is also less.

The annual number of camping visitors by reservoir are shown in Table 7.6-14.

The annual number of camping visitors are then distributed by the weights for expected annual visitation to show the annual number of camping visitors by month. This is done through the following equation.

$$K_{it} = J_i (I_{it})$$
 (7.6-8)

where:

Kit is the number of annual camping visitors to reservoir i in month t

J_i is the annual number of camping visitors for reservoir i

Iit is the weight of the expected annual visitation to reservoir i

in month t

The annual number of camping visitors by month to the reservoirs are shown in Table 7.6-15. Together the annual number of camping visitors by month show the annual pattern of visitation to the reservoir by camping visitors.

Table 7.6-13. Annual Number of Camping Visitors by Campground by Reservoir.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boca Reservoir
Number of Camping Visitors for Donner State Park	56,715			
Number of Camping Visitors for Lakeside Campground		0		
Number of Camping Visitors for Prosser Family Campground		15,031		
Number of Camping Visitors for Prosser Ranch Campground		3,877		
Number of Camping Visitors for Annie McCloud Campground		0		
Number of Camping Visitors for Davies Creek Campground			1,111	
Number of Camping Visitors for Emigrant Campground			20,679	
Number of Camping Visitors for Logger Campground			97,132	
Number of Camping Visitors for Boca Campground				0
Number of Camping Visitors for Boca Rest Campground				29,427
Number of Camping Visitors for Boca Spring Campground				0
Number of Camping Visitors for Boyington Mill Campground				3,480
Total Number of Camping Visitors for Campgrounds	56,715	18,908	118,921	32,907

Note: There are 152 open campsites at Donner Lake, 46 open campsites at Prosser Reservoir, 216 to 256 open campsites at Stampede Reservoir, and 59 open campsites at Boca Reservoir.

Table 7.6-14. Annual Number of Camping Visitors by Reservoir.

	Donner	Prosser	Stampede	Boca
	Lake	Reservoir	Reservoir	Reservoir
Annual Number of Camping Visitors	56,715	18,908	118,921	32,907

Table 7.6-15. Annual Number of Camping Visitors by Month by Reservoir.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boca Reservoir
Number of Camping Visitors during April	2,794	1,022	5,764	2,025
Number of Camping Visitors during May	4,889	1,916	12,438	4,472
Number of Camping Visitors during June	9,918	3,322	26,090	5,822
Number of Camping Visitors during July	14,388	4,471	25,180	6,328
Number of Camping Visitors during August	13,410	4,216	29,427	6,581
Number of Camping Visitors during September	6,146	2,172	13,045	4,303
Number of Camping Visitors during October	2,235	1,405	6,371	2,447
Number of Camping Visitors during Other Months	2,934	383	607	928
Annual Number of Camping Visitors	56,715	18,908	118,921	32,907

Annual Number of Day Use Visitors

The annual number of day use visitors to the reservoirs is derived by multiplying the annual number of camping visitors to the reservoirs by the ratio of day use visitors to camping visitors taken from the survey vehicle count data.

The ratio of day use visitors to camping visitors is calculated through the following equations.

$$L_i = M_i (N_i)$$
 (7.6-9)

$$O_{\mathbf{i}} = P_{\mathbf{i}} (Q_{\mathbf{i}}) \tag{7.6-10}$$

$$R_{i} = \frac{O_{i}}{L_{i}} \tag{7.6-11}$$

where: L_i is the number of camping visitors to reservoir i

M; is the number of camping visitor vehicles at reservoir i

N_i is the average group size of camping respondents at reservoir i

O; is the number of day use visitors to reservoir i

P_i is the number of day use visitor vehicles at reservoir i

Q_i is the average group size of day use respondents at reservoir i R_i is the ratio of day use visitors to camping visitors to reservoir i

The ratios of day use visitors to camping visitors by reservoir are given in Table 7.6-16.

The annual number of day use visitors is then calculated through the following equation.

$$S_i = J_i (R_i)$$
 (7.6-12)

where: S_i is the annual number of day use visitors for reservoir i

J_i is the annual number of camping visitors for reservoir i

R_i is the ratio of day use visitors to camping visitors to reservoir i

The annual number of day use visitors by reservoir are shown in Table 7.6-17.

The annual number of day use visitors are then distributed by the weights for expected annual visitation to show the annual number of day use visitors by month. This is done through the following equation.

$$T_{it} = S_i (I_{it})$$

$$(7.6-13)$$

where:

Tit is the number of annual day use visitors to reservoir i in month t

S_i is the annual number of day use visitors for reservoir i

Iit is the weight of the expected annual visitation to reservoir i

in month t

The annual number of day use visitors by month to the reservoirs are shown in Table 7.6-18. Together the annual number of day use visitors by month show the annual pattern of visitation to the reservoir by day use visitors.

Table 7.6-16. Ratio of Day Use Visitors to Camping Visitors by Reservoir.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boca Reservoir
Average Group Size of Camping Respondents	5.24	3.73	5.12	5,10
Average Group Size of Day Use Respondents	5.02	3.13	3.89	5.02
Number of Camping Visitor Vehicles counted on May 28, 1994		26	227	98
Number of Camping Visitor Vehicles counted on June 11, 1994		44	136	16
Number of Camping Visitor Vehicles counted on June 17, 1994		11	86	9
Number of Camping Visitor Vehicles counted on June 24, 1994				
Number of Camping Visitor Vehicles counted on June 25, 1994		37	107	9
Number of Camping Visitor Vehicles counted on July 2, 1994		30	208	38
Number of Camping Visitor Vehicles counted on July 8, 1994		13	63	12
Number of Camping Visitor Vehicles counted on July 16, 1994		28	131	16
Number of Camping Visitor Vehicles counted on July 22, 1994		24	90	8
Number of Camping Visitor Vehicles counted on July 23, 1994				
Number of Camping Visitor Vehicles counted on August 6, 1994		32	86	12
Number of Camping Visitor Vehicles counted on August 12, 1994				
Number of Camping Visitor Vehicles counted on August 20, 1994		21	93	10
Number of Camping Visitor Vehicles counted on September 3, 1994		23	70	11
Total Number of Camping Visitor Vehicles	N.A.	289	1,297	239
Number of Day Use Visitor Vehicles counted on May 28, 1994		33	36	43
Number of Day Use Visitor Vehicles counted on June 11, 1994		4	39	62
Number of Day Use Visitor Vehicles counted on June 17, 1994		3	12	22
Number of Day Use Visitor Vehicles counted on June 24, 1994				
Number of Day Use Visitor Vehicles counted on June 25, 1994		16	18	28
Number of Day Use Visitor Vehicles counted on July 2, 1994		35	65	50
Number of Day Use Visitor Vehicles counted on July 8, 1994		9	14	18
Number of Day Use Visitor Vehicles counted on July 16, 1994		10	49	19
Number of Day Use Visitor Vehicles counted on July 22, 1994		4	15	9
Number of Day Use Visitor Vehicles counted on July 23, 1994				
Number of Day Use Visitor Vehicles counted on August 6, 1994		2	21	12
Number of Day Use Visitor Vehicles counted on August 12, 1994				
Number of Day Use Visitor Vehicles counted on August 20, 1994		9	40	20
Number of Day Use Visitor Vehicles counted on September 3, 1994		6	26	23
Total Number of Day Use Visitor Vehicles	N.A.	131	335	306
Number of Camping Visitors	N.A.	1,078	6,641	1,219
Number of Day Use Visitors	N.A.	410	1,303	1,536
Ratio of Day Use Visitors to Camping Visitors /1	3.72	0.38	0.20	1.26

^{1.} Ratio of day use visitors to camping visitors for Donner Lake is based on estimates of recreation visits for 1993. Estimates are 195,099 camping visits and 138,246 day use visits.

Table 7.6-17. Annual Number of Day Use Visitors by Reservoir.

	Donner	Prosser	Stampede	Boca
	Lake	Reservoir	Reservoir	Reservoir
Annual Number of Day Use Visitors	211,037	7,192	23,337	41,470

Table 7.6-18. Annual Number of Day Use Visitors by Month by Reservoir.

	Donner	Prosser	Stampede	Boca
	Lake	Reservoir	Reservoir	Reservoir
AV 1	10.004			2.552
Number of Day Use Visitors during April	10,396	389	1,131	2,552
Number of Day Use Visitors during May	18,193	729	2,441	5,636
Number of Day Use Visitors during June	36,905	1,263	5,120	7,337
Number of Day Use Visitors during July	53,539	1,701	4,941	7,975
Number of Day Use Visitors during August	49,900	1,604	5,775	8,294
Number of Day Use Visitors during September	22,871	826	2,560	5,423
Number of Day Use Visitors during October	8,317	535	1,250	3,084
Number of Day Use Visitors during Other Months	10,916	146	119	1,170
Annual Number of Day Use Visitors	211,037	7,192	23,337	41,470

Annual Number of Camping Visitor Groups

The annual number of camping visitor groups to the reservoirs is derived by dividing the annual number of camping visitors by month by the group size. This is done through the following equation.

$$U_{it} = \frac{K_{it}}{N_i}$$
 (7.6-14)

where:

Uit is the annual number of camping visitor groups to reservoir i in

month t

Kit is the number of annual camping visitors to reservoir i in month t

N_i is the average group size of camping respondents at reservoir i

The annual number of camping visitor groups by month to the reservoirs are shown in Table 7.6-19.

Table 7.6-19. Annual Number of Camping Visitor Groups by Month by Reservoir.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boon Reservoir
Number of Camping Visitor Groups during April	1,834	548	2,252	794
Number of Camping Visitor Groups during May	3,210	1,028	4,859	1,754
Number of Camping Visitor Groups during June	6,511	1,781	10,191	2,283
Number of Camping Visitor Groups during July	9,446	2,398	9,836	2,482
Number of Camping Visitor Groups during August	8,804	2,261	11,495	2,581
Number of Camping Visitor Groups during September	4,035	1,165	5,096	1,688
Number of Camping Visitor Groups during October	1,467	754	2,489	960
Number of Camping Visitor Groups during Other Months	1,926	206	237	364
Annual Number of Camping Visitor Groups	37,233	10,138	46,453	12,905

Annual Number of Day Use Visitor Groups

The annual number of day use visitor groups to the reservoirs is derived by dividing the annual number of day use visitors by month by the group size. This is done through the following equation.

$$V_{it} = \frac{T_{it}}{Q_i}$$
 (7.6-15)

where:

Vit is the annual number of day use visitor groups to reservoir i in

month t

Tit is the number of annual day use visitors to reservoir i in month t

Qi is the average group size of day use respondents at reservoir i

The annual number of day use visitor groups by month to the reservoirs are shown in Table 7.6-20.

Table 7.6-20. Annual Number of Day Use Visitor Groups by Month by Reservoir.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boon Reservoir
Number of Dey Use Visitor Groups during April	1,357	248	582	1,017
Number of Day Use Visitor Groups during May	2,374	466	1,255	2,245
Number of Day Use Visitor Groups during June	4,816	\$07	2,632	2,923
Number of Day Use Visitor Groups during July	6,987	1,087	2,540	3,177
Number of Day Use Visitor Groups during August	6,512	1,025	2,969	3,304
Number of Day Use Visitor Groups during September	2,985	528	1,316	2,161
Number of Day Use Visitor Groups during October	1,085	342	643	1,229
Number of Day Use Visitor Groups during Other Months	1,424	93	61	466
Annual Number of Day Use Visitor Groups	27,539	4,596	11,998	16,522

Annual Camping Visitor Expenditures

The annual camping visitor expenditures by reservoir are the summation of the annual number of camping visitor groups per month multiplied by the camping visitor group expenditure function value. This is done through the following equations.

$$W_{it} = U_{it}(X_i)$$
 (7.6-16)

$$Y_i = \sum W_{it} \tag{7.6-17}$$

where: Wit is the annual camping visitor expenditures for reservoir i in month t

Uit is the annual number of camping visitor groups to reservoir i in

month t

X_i is the camping visitor group expenditure function value for

reservoir i

Y_i is the annual camping visitor expenditures for reservoir i

The camping visitor group expenditure function values for each reservoir are shown in Table 7.6-21. The annual camping visitor expenditures by month by reservoir are shown in Table 7.6-22.

The annual camping visitor expenditures are proportioned by the percentage of expenditure per category indicated by camping respondents for the reservoir. This is done through the following equation.

$$Z_{ci} = Y_i (AA_{ci})$$
 (7.6-18)

where:

Z_{ci} is the annual camping visitor expenditures by category c for reservoir i

Y_i is the annual camping visitor expenditures for reservoir i

AA_{ci} is the percentage of expenditure per category c for reservoir i by camping respondents

The annual camping visitor expenditures by category by reservoir are shown in Table 7.6-23.

Table 7.6-21. Camping Visitor Group Expenditure Function Values by Reservoir.

	Donner	Prosser	Stampede	Boos
	Lake	Reservoir	Reservoir	Reservoir
Camping Visitor Group Expenditure per Day	\$36.97	\$27.90	\$39.61	\$34.40

Table 7.6-22. Annual Camping Visitor Expenditures by Month by Reservoir.

	Doesser Lake	Proseer Reservoir	Stampede Reservoir	Bocs Reservoir
Camping Visitor Expenditures during April	67,807	15,290	89,184	27,318
Camping Visitor Expenditures during May	118,663	28,668	192,451	60,327
Comping Visitor Expenditures during June	240,716	49,692	403,677	78,539
Camping Visitor Expenditures during July	349,208	66,892	389,595	85,368
Camping Visitor Expenditures during August	325,476	63,070	455,310	88,783
Camping Visitor Expenditures during September	149,176	32,491	201,838	58,050
Camping Visitor Expenditures during October	54,246	21,023	98,572	33,009
Camping Visitor Expenditures during Other Months	71,198	5,734	9,388	12,521
Annual Camping Visitor Expenditures	\$1,376,490	\$282,860	\$1,840,016	\$443,915

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Table 7.6-23. Annual Camping Visitor Expenditures by Category by Reservoir.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boca Reservoir
Number of Camping Respondents	42	30	97	21
Expenditures on Licenses by Camping Respondents	0.00	0.00	533.94	69.60
Expenditures on Camping Fees by Camping Respondents	2045.82	623.10	4231.19	434.01
Expenditures on Hotel or Motel by Camping Respondents	235.20	0.00	0.00	219.98
Expenditures on Restaurent by Camping Respondents	1189.86	246.90	1081.22	120.02
Expenditures on Grossries by Camping Respondents	2392.32	1840.80	5872.95	2030.03
Expanditures on Equipment and Supplies by Camping Respondents	0.00	0.00	497.64	1.60
Expenditures on Rental by Cumping Respondents	25.20	0.00	0.00	3.06
Expenditures on Fuel by Camping Respondents	654.36	365.70	2666.98	439.38
Expenditures on Other by Camping Respondents	1065.12	418.50	3766.40	688.05
Total Expenditures by Camping Respondents	\$7,607.88	\$3,495.00	\$18,650.32	\$4,005.73
Expenditures on Lioeness by Camping Respondents	0.00%	0.00%	2.86%	1.74%
Expenditures on Comping Fees by Comping Respondents	26.89%	17.83%	22.69%	10.83%
Expenditures on Hotel or Motel by Camping Respondents	3.09%	0.00%	0.00%	5.49%
Expenditures on Restaurant by Camping Respondents	15.64%	7.06%	5.80%	3.00%
Expenditures on Groceries by Cumping Respondents	31.45%	52.67%	31.49%	50.68%
Expenditures on Equipment and Supplies by Camping Respondents	0.00%	0.00%	2.67%	0.04%
Expenditures on Rental by Comping Respondents	0.33%	0.00%	0.00%	0.08%
Expenditures on Fuel by Cumping Respondents	8.60%	10.46%	14.30%	10.97%
Expenditures on Other by Camping Respondents	14.00%	11.97%	20.19%	17.18%
Total Expanditures by Camping Respondents	100.00%	100.00%	100.00%	100.00%
Annual Camping Visitor Expenditures on Lioennes	0	0	52,678	7,713
Annual Camping Visitor Expanditures on Camping Fees	370,149	50,429	417,444	48,097
Annual Camping Visitor Expenditures on Hotel or Motel	42,555	0	0	24,378
Annual Camping Visitor Expenditures on Restaurant	215,281	19,982	106,672	13,301
Annual Camping Visitor Expenditures on Groosries	432,841	148,981	579,418	224,968
Annual Camping Visitor Expenditures on Equipment and Supplies	0	0	49,097	177
Annual Camping Visitor Expenditures on Rental	4,559	0	0	339
Annual Camping Visitor Expenditures on Fuel	118,393	29,597	263,121	48,692
Annual Camping Visitor Expenditures on Other	192,712	33,870	371,588	76,250
Annual Camping Visitor Expanditures	\$1,376,490	\$282,860	\$1.840.016	\$443.015

Annual Day Use Visitor Expenditures

The annual day use visitor expenditures by reservoir are the summation of the annual number of day use visitor groups per month multiplied by the day use visitor group expenditure function value. This is done through the following equations.

$$AB_{it} = V_{it} (AC_i)$$
 (7.6-19)

$$AD_{i} = \sum AB_{it}$$
 (7.6-20)

where:

ABit is the annual day use visitor expenditures for reservoir i in month t

Vit is the number of annual day use visitor groups to reservoir i in month t

AC_i is the day use visitor group expenditure function value for reservoir i

AD; is the annual day use visitor expenditures for reservoir i

The day use visitor group expenditure function values for each reservoir are shown in Table 7.6-24. The annual day use visitor expenditures by month by reservoir are shown in Table 7.6-25.

The annual day use visitor expenditures are proportioned by the percentage of expenditure per category indicated by day use respondents for the reservoir. This is done through the following equation.

$$AE_{ci} = AD_i (AF_{ci})$$
 (7.6-21)

where:

AE_{ci} is the annual day use visitor expenditures by category c for reservoir i

AD; is the annual day use visitor expenditures for reservoir i

AFci is the percentage of expenditure per category c for

reservoir i by day use respondents

The annual day use visitor expenditures by category by reservoir are shown in Table 7.6-26.

Table 7.6-24. Day Use Visitor Group Expenditure Function Values by Reservoir.

	Donner Lake	Promer Reservoir	Stampede Reservoir	Boon Reservoir
Day Use Visitor Group Expenditure per Day	\$52.00	\$34.07	\$52.78	\$48.85

Table 7.6-25. Annual Day Use Visitor Expenditures by Month by Reservoir.

	Donner f.ake	Promer Reservoir	Stampede Reservoir	Boca Reservoir
Day Use Visitor Expenditures during April	70,543	8,463	30,694	49,668
Day Use Visitor Expenditures during May	123,451	15,869	66,235	109,683
Day Use Visitor Expenditures during June	250,429	27,506	138,932	142,795
Day Use Visitor Expenditures during July	363,298	37,027	134,086	155,212
Day Use Visitor Expenditures during August	338,608	34,911	156,703	161,421
Day Use Visitor Expenditures during September	155,195	17,985	69,466	105,544
Day Use Visitor Expenditures during October	56,435	11,637	33,925	60,015
Day Use Visitor Expenditures during Other Months	74,071	3,174	3,231	22,764
Annual Day Use Visitor Expenditures	\$1,432,030	\$156,571	\$633,273	\$807,104

Table 7.6-26. Annual Day Use Visitor Expenditures by Category by Reservoir.

	Donner Lake	Promer Reservoir	Stampede Reservoir	Boos Reservoir
Number of Day Use Respondents	71	8	9	54
Expenditures on Licenses by Day Use Respondents	0.00	142.38	347.40	376.00
Expenditures on Comping Fees by Day Use Respondents	165.64	0.00	0.00	292.80
Expenditures on Hotel or Motel by Day Use Respondents /1	1101.01	6.00	144.00	1317.14
Expenditures on Restaurant by Day Use Respondents	1169.56	250.02	135.00	537.16
Expenditures on Groceries by Day Use Respondents	1510.37	250.02	201.60	1408.56
Expenditures on Equipment and Supplies by Day Use Respondents	351.30	27.00	33.84	230.40
Expenditures on Rental by Day Use Respondents	956.38	975.00	0.00	0.00
Expenditures on Fuel by Day Use Respondents	449.02	119.98	181.80	886.20
Expenditures on Other by Day Use Respondents	323.15	50.00	13.50	292.80
Total Expenditures by Day Use Respondents	\$6,026.43	\$1,820.40	\$1,057.14	\$5,341.06
Expanditures on Licenses by Day Use Respondents	0.00%	7.82%	32.86%	7.04%
Expenditures on Camping Fees by Day Use Respondents	2.75%	0.00%	0.00%	5.48%
Expenditures on Hotel or Motel by Day Use Respondents /L	18.27%	0.33%	13.62%	24.66%
Expenditures on Restaurant by Day Use Respondents	19.41%	13.73%	12.77%	10.06%
Expenditures on Groceries by Day Use Respondents	25.06%	13.73%	19.07%	26.37%
Expenditures on Equipment and Supplies by Day Use Respondents	5.83%	1.48%	3.20%	4.31%
Expenditures on Rental by Day Use Respondents	15.87%	53.5 6%	0.00%	0.00%
Expenditures on Fuel by Day Use Respondents	7.45%	6.59%	17.20%	16.59%
Expenditures on Other by Day Use Respondents	5.36%	2.75%	1.28%	5.48%
Total Expenditures by Day Use Respondents	100.00%	100.00%	100.00%	100.00%
Annual Day Use Visitor Expenditures on Licenses	0	12,246	208,108	56,819
Annual Day Use Visitor Expenditures on Comping Fees	39,360	0	0	44,246
Annual Day Use Visitor Expenditures on Hotel or Motel /1	261,627	516	86,262	199,037
Annual Day Use Visitor Expenditures on Restaurant	277,917	21,504	80,871	81,172
Annual Day Use Visitor Expenditures on Groceries	358,902	21,504	120,767	212,852
Annual Day Use Visitor Expenditures on Equipment and Supplies	83,478	2,322	20,272	34,816
Annual Day Use Visitor Expenditures on Rental	227,260	83,8 59	0	0
Annual Day Use Visitor Expanditures on Fuel	106,698	10,319	106,906	133,916
Annuel Day Use Visitor Expenditures on Other	76,789	4,300	8,087	44,246
Annual Day Use Visitor Expenditures	\$1,432,030	\$156,571	\$633,273	\$807,104

^{1.} Expenditures on hotel or motel include vecetion-home rent expenditures

Annual Number of Camping and Day Use Visitors

The annual number of camping and day use visitors by reservoir is the summation of the annual number of camping visitors and the annual number of day use visitors. This is done through the following equations.

$$AG_{it} = K_{it} + T_{it} \tag{7.6-22}$$

$$AH_{i} = \sum AG_{it}$$
 (7.6-23)

where:

AGit is the annual number of camping and day use visitors for reservoir i in month t

 K_{it} is the number of annual camping visitors to reservoir i in month t T_{it} is the number of annual day use visitors to reservoir i in month t AH_i is the annual number of camping and day use visitors for reservoir i

The annual number of camping and day use visitors by month by reservoir are shown in Table 7.6-27.

Table 7.6-27. Annual Number of Camping and Day Use Visitors by Month by Reservoir.

	Donnar Lake	Prosser Reservoir	Stampede Reservoir	Boos Reservoir
Number of Camping and Day Use Visitors during April	16,421	2,822	13,790	9,154
Number of Comping and Day Use Visitors during May	28,737	5,291	29,758	20,215
Number of Camping and Day Use Visitors during June	58,294	9,170	62,419	26,318
Number of Camping and Day Use Visitors during July	84,568	12,345	60,242	28,607
Number of Camping and Day Use Visitors during August	78,820	11,639	70,403	29,751
Number of Camping and Day Use Visitors during September	36,126	5,996	31,210	19,452
Number of Camping and Day Use Visitors during October	13,137	3,880	15,242	11,061
Number of Camping and Day Use Visitors during Other months	17,242	1,058	1,452	4,196
Annuel Number of Camping and Day Use Visitors	333,345	52,200	284,515	148,754

Annual Camping and Day Use Visitor Expenditures

The annual camping and day use visitor expenditures by reservoir is the summation of the annual camping visitor expenditures and the annual day use visitor expenditures. This is done through the following equations.

$$AI_{it} = W_{it} + AB_{it}$$
 (7.6-24)

$$AJ_{i} = \sum AI_{it}$$
 (7.6-25)

where:

AI_{it} is the annual camping and day use visitor expenditures for reservoir i in month t

 W_{it} is the annual camping visitor expenditures for reservoir i in month t AB_{it} is the annual day use visitor expenditures for reservoir i in month t AJ_i is the annual camping and day use visitor expenditures for reservoir i

The annual camping and day use visitor expenditures by month by reservoir are shown in Table 7.6-28.

Table 7.6-28. Annual Camping and Day Use Visitor Expenditures by Month by Reservoir.

	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boon Rassevoir
Camping and Day Use Visitor Expenditures during April	138,351	23,753	119,879	76,986
Camping and Day Use Visitor Expenditures during May	242,114	44,537	258,686	170,010
Camping and Day Use Visitor Expenditures during June	491,145	77,197	542,609	221,334
Camping and Day Use Visitor Expanditures during July	712,506	103,919	523,681	240,581
Camping and Day Use Visitor Expenditures during August	664,084	97,981	612,013	250,204
Comping and Day Use Visitor Expenditures during September	304,372	50,475	271,305	163,595
Comping and Day Use Visitor Expenditures during October	110,681	32,660	132,498	93,025
Camping and Day Use Visitor Expenditures during Other months	145,268	8,907	12,619	35,285
Annual Camping and Day Use Visitor Expenditures	\$2,808,521	\$439,431	\$2,473,289	\$1,251,019

Annual Camping and Day Use Visitor Expenditures by Category

The annual camping and day use visitor expenditures by category by reservoir is the summation of the annual camping visitor expenditures by category and the annual day use visitor expenditures by category. This is done through the following equations.

$$AK_{ci} = Z_{ci} + AE_{ci}$$
 (7.6-26)

$$AL_{i} = \sum AK_{ci}$$
 (7.6-27)

where:

AK_{ci} is the annual camping and day use visitor expenditures by category c for reservoir i

Z_{ci} is the annual camping visitor expenditures by category c for reservoir i

AE_{ci} is the annual day use visitor expenditures by category c for reservoir i

ALi is the annual camping and day use visitor expenditures for reservoir i

The annual camping and day use visitor expenditures by category by reservoir are shown in Table 7.6-29.

Table 7.6-29. Annual Camping and Day Use Visitor Expenditures by Category by Reservoir.

	Donner Lake	Promer Reservoir	Stampede Reservoir	Boca Reservoir
Annual Camping and Day Use Visitor Expenditures on Limmes	0	12,246	260,786	64,532
Annual Camping and Day Use Visitor Expenditures on Camping Fees	409,510	50,429	417,444	92,343
Annual Camping and Day Use Visitor Expenditures on Hotel or Motel	304,182	516	86,262	223,415
Annual Camping and Day Use Visitor Expenditures on Restaurant	493,198	41,486	187,543	94,473
Annual Camping and Day Use Visitor Expenditures on Groceries	791,743	170,485	700,185	437,820
Annual Camping and Day Use Visitor Expenditures on Equipment and Supplies	83,478	2,322	69,368	34,994
Annual Camping and Day Use Visitor Expenditures on Rental	231,819	83,859	0	339
Annual Camping and Day Use Visitor Expenditures on Fuel	225,091	39,916	372,027	182,609
Annual Camping and Day Use Visitor Expenditures on Other	2 69 ,500	38,171	379,675	120,496
Annual Camping and Day Use Visitor Expenditures	\$2,808,521	\$439,431	\$2,473,289	\$1,251,019

	8.	Model Appl	ication Imp	rovement		
Model applicati	on imp orage le	rovement incl	ludes estima	ation of the	economic	impacts for
		5	549			

8.1. Estimation of the Economic Impacts for Alternative Reservoir Storage Levels

Estimation of the economic impacts for alternative reservoir storage levels at Donner Lake and at Prosser, Stampede, and Boca Reservoirs is done by integrating the recreation model component with the input-output model component. A direct economic impact is calculated first using the recreation model component. Then second, the total economic impact is calculated using the input-output model component. Third, the response economic impact is also calculated using the input-output model component.

Direct Economic Impact

The direct economic impact is the expenditures that camping and day use visitors at Donner Lake and at Prosser, Stampede, and Boca Reservoirs make in the regional economy during the year. Expenditures are on licenses, camping fees, hotel or motel, restaurant, groceries, equipment and supplies, rental, fuel, and other items.

Estimation of the direct economic impact is done through the following process. Using the recreation model component, the end of the month reservoir storage levels at Donner Lake and at Prosser, Stampede, and Boca Reservoirs is the input data. In turn, annual number of camping and day use visitors, annual camping and day use visitor expenditures by category are calculated for each of the reservoirs. The total expenditures by category for all the reservoirs are then placed into economic sectors to become the direct economic impact. Underlying details of the recreation model component and equations used to calculate annual visitors, annual visitor expenditures, and annual visitor expenditures by category are given in Chapter 7.

End of the Month Reservoir Storage Levels

End of the month reservoir storage levels at Donner Lake and at Prosser, Stampede, and Boca Reservoirs are provided in Table 8.1-1.

End of the month reservoir storage levels for Donner Lake and Prosser, Stampede, and Boca Reservoirs are given for April through October and Other Months. April through October is considered to be the recreation season in a given year. Other Months are January, February, March, November and December of the given year. The reservoir storage levels are taken in total for April through October and as an average for the Other Months.

End of the month reservoir storage levels for Donner Lake and Prosser, Stampede, and Boca Reservoirs also have a set range of storage level. Reservoir storage levels at Donner Lake can range between 5,796 acre-feet and 9,660 acre-feet. Reservoir storage levels at Prosser Reservoir can range between 0 acre-feet and 29,840 acre-feet. Reservoir storage levels at Stampede Reservoir can range between 0 acre-feet and 226,500 acre-feet. Reservoir storage levels at Boca Reservoir can range between 0 acre-feet to 40,870 acre-feet.

Annual Number of Camping and Day Use Visitors

Annual number of camping and day use visitors by month by reservoir are provided in Table 8.1-2.

Annual Camping and Day Use Visitor Expenditures

Annual camping and day use visitor expenditures by month by reservoir are provided in Table 8.1-3.

Annual Camping and Day Use Visitor Expenditures by Category

Annual camping and day use visitor expenditures by category by reservoir are provided in Table 8.1-4.

Direct Economic Impact

The direct economic impact by economic sector is provided in Table 8.1-5. The total expenditures by category for the reservoirs are placed into economic sectors. The direct impact is presented as total direct expenditures.

There are twenty economic sectors within the regional economy. These sectors include livestock production, dairy production, alfalfa hay production, other hay production, barley production, agricultural services, gold mining, other mining, construction, manufacturing, transportation and communications, utilities, trade, eating, drinking, and lodging, finance, insurance, and real estate, services, hotels, gaming, and recreation, health, local government, and households. In addition to these sectors, there is also other final payments and imports.

The trade sector accounts for expenditure categories of groceries, equipment and supplies, fuel, and other. The eating, drinking, and lodging sector accounts for the expenditure categories of hotel or motel, restaurant, and rental. Other final payments account for expenditure categories of camping fees and license fees.

The total direct expenditures are trade, eating, drinking, and lodging sector expenditures, other final payments, and imports. Other final payments and imports are leakage's out of the regional economy. Other final payments are expenditures to the federal and state government. Imports make-up the balance of the marginalized trade sector expenditures. The trade sector expenditures are marginalized to 25% to reflect that only the mark-up value on goods sold remains in the regional economy.

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Table 8.1-1. End of the Month Reservoir Storage Levels.

Month	Donner Lake acre-feet	Prosser Reservoir acre-feet	Stampede Reservoir acre-feet	Boca Reservoir acre-feet
April	4,930	9,767	80,186	26,763
May	9,300	16,414	113,577	37,473
June	9,600	20,957	166,955	38,557
July	9,420	22,110	177,424	38,084
August	8,880	21,691	174,288	34,582
September	5,300	14,394	172,442	23,927
October	3,150	10,050	170,696	16,419
Other Months Average	3,366	9,854	113,263	9,561
Jenuary	3,290	9,827	73,944	5,247
February	3,320	9,723	75,751	4,396
March	4,290	9,642	76,677	2,955
November	2,980	9,981	170,433	17,042
December	2,950	10,098	169,510	18,163

Table 8.1-2. Annual Number of Camping and Day Use Visitors by Month by Reservoir.

Month	Donner Lake visitors	Prosser Reservoir visitors	Stampede Reservoir visitors	Boca Reservoir visitors	Total
April	16,421	2,822	13,790	9,154	42,187
May	28,737	5,291	29,758	20,215	84,000
June	58,294	9,170	62,419	26,318	156,202
July	84,568	12,345	60,242	28,607	185,761
August	78,820	11,639	70,403	29,751	190,613
September	36,126	5,996	31,210	19,452	92,784
October	13,137	3,880	15,242	11,061	43,320
Other Months	17,242	1,058	1,452	4,196	23,947
Total	333,345	52,200	284,515	148,754	\$18,814

Table 8.1-3. Annual Camping and Day Use Visitor Expenditures by Month by Reservoir.

Month	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boca Reservoir	Total
	\$	*			\$
April	138,351	23,753	119,879	76,986	358,968
May	242,114	44,537	258,686	170,010	715,347
June	491,145	77,197	542,609	221,334	1,332,286
July	712,506	103,919	523,681	240,581	1,580,688
August	664,084	97,981	612,013	250,204	1,624,282
September	304,372	50,475	271,305	163,595	789,746
October	110,681	32,660	132,498	93,025	368,863
Other Months	145,268	8,907	12,619	35,285	202,080
Total	2,808,521	439,431	2,473,289	1,251,019	6,972,260

Table 8.1-4. Annual Camping and Day Use Visitor Expenditures by Category by Reservoir.

Category	Donner Lake	Prosser Reservoir	Stampede Reservoir	Boos Reservoir	Total
	3		*	<i>3</i>	\$
Licenses	0	12,246	260,786	64,532	337,563
Camping Fees	409,510	50,429	417,444	92,343	969,725
Hotel or Motel	304,182	516	\$6,262	223,415	614,376
Restaurant	493,198	41,486	187,543	94,473	\$16,699
Groceries	791,743	170,485	700,185	437,820	2,100,233
Equipment and Supplies	83,478	2,322	69,368	34,994	190,162
Rental	231,819	83,859	0	339	316,017
Fuel	225,091	39,916	372,027	182,609	819,643
Other	269,500	38,171	379,675	120,496	807,842
Total	2,808,521	439,431	2,473,289	1,251,019	6,972,260

Economic Sector	Total Direct Expenditures \$
1 Livestock Production	0
2 Dairy Production	0
3 Alfalfa Hay Production	0
4 Other Hay Production	0
5 Barley Production	0
6 Agricultural Services	0
7 Gold Mining	0
# Other Mining	0
9 Construction	0
10 Manufacturing	0
11 Transportation and Communications	0
12 Utilities	0
13 Trade	999,059
14 Eating, Drinking, and Lodging	1,747,092
15 Finance, Insurance, and Real Estate	0
16 Services	0
17 Hotels, Geming, and Recreation	0
1# Health	0
19 Local Government	0
20 Households	0
Other Final Payments	1,307,288
Imports	2,918,820
Total	6,972,260

Total Economic Impact

The total economic impact is the total amount of economic activity in terms of output generated from the direct economic impact.

The total economic impact includes the direct economic impact plus indirect and induced economic impacts. The direct economic impact is the expenditures accounted for in the trade, and, eating, drinking, and lodging sectors. The indirect economic impact is the additional impact that occurs due to linkages that the trade, and, eating, drinking, and lodging sectors have with each other and with the other economic sectors in the regional economy, except for local government and households sectors. The induced economic impact is the additional impact that occurs due to linkages that the trade, and, eating, drinking, and lodging sectors have with the local government and households sectors.

Estimation of the total economic impact is done through the following process. The direct economic impact by economic sector is the input data. In turn, using the input-output model component, the direct economic impact by economic sector is post-multiplied by the output requirements to become the total economic impact. Underlying details of the input-output model component and output requirements are given in Chapter 4.

Total Economic Impact

The total economic impact by economic sector is provided in Table 8.1-6. The total economic impact is presented as total output and adjusted output. The adjusted output is net of agriculture production and mining sectors. The reason for this is because the agriculture production and mining sectors have a fixed resource base.

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Table 8.1-6. Total Economic Impact by Economic Sector.

Economic Sector	Total	Adjusted /1
•	Output	Output
		\$
1 Livestock Production	246	0
2 Dairy Production	66	0
3 Alfalfa Hay Production	39	0
4 Other Hay Production	63	0
5 Barley Production	4	0
6 Agricultural Services	1,497	1,497
7 Gold Mining	165	
8 Other Mining	219	0
9 Construction	63,777	63,777
10 Manufacturing	97,302	97,302
11 Transportation and Communications	85,042	85,042
12 Utilities	157,939	157,939
13 Trade	1,171,681	1,171,681
14 Esting, Drinking, and Lodging	1,776,923	1,776,923
15 Finance, Insurance, and Real Estate	283,643	283,643
16 Services	293,234	293,234
17 Hotels, Garsing, and Recrestion	46,661	46,661
18 Health	98,173	98,173
19 Local Government	77,282	77,282
20 Households	1,504,461	1,502,805
Other Final Payments	1,307,288	1,307,288
Imports	2,918,820	2,918,820
Total	9,884,525	9,882,066

^{1.} Adjusted output is not of agriculture production and mining sectors.

Response Economic Impact

The response economic impact includes the employment response, income response, population response, housing response, agriculture water use response, commercial water use response, and residential water use response to the total economic impact.

Estimation of the response economic impact is done through the following process. The total economic impact by economic sector is the input data. In turn, using the input-output model component, the total economic impact by economic sector is multiplied by the output response coefficients by economic sector to become the response economic impact. Output response coefficients are given for employment, income, population, housing, agriculture water use, commercial water use, and residential water use. Underlying details of the input-output model component and output response coefficients are given in Chapter 4.

Employment Response

Employment response by economic sector is provided in Table 8.1-7. Employment is measured as jobs.

Income Response

Income response by economic sector is provided in Table 8.1-8. Income is measured in dollars.

Population Response

Population response by economic sector is provided in Table 8.1-9. Population is measured as all persons.

Housing Response

Housing response by economic sector is provided in Table 8.1-10. Housing is measured as dwellings.

Agriculture Water Use Response

Agriculture water use response by economic sector is provided in Table 8.1-11. Agriculture water use is measured in acre-feet.

Commercial Water Use Response

Commercial water use response by economic sector is provided in Table 8.1-12. Commercial water use is measured in acre-feet and in gallons.

Residential Water Use Response

Residential water use response by economic sector is provided in Table 8.1-13. Residential water use is measured in acre-feet and in gallons.

Table 8.1-7. Employment Response by Economic Sector.

Economic Sector	Employment jobs
1 Livestock Production	0
2 Dairy Production	0
3 Alfalfa Hey Production	0
4 Other Hey Production	0
5 Barley Production	0
6 Agricultural Services	0
7 Gold Mining	0
8 Other Mining	0
9 Construction	1
10 Menufacturing	1
11 Transportation and Communications	1
12 Utilities	1
13 Trade	30
14 Esting Drinking and Lodging	33
15 Finance, Insurance, and Real Estate	3
16 Services	1
17 Hotels, Gaming, and Recreation	1
18 Health	3
19 Local Government	1
20 Households	0
Total	#3

Table 8.1-8. Income Response by Economic Sector.

Economic Sector	Income	
1 Livestock Production	0	
2 Dairy Production	0	
3 Alfalfa Hay Production	0	
4 Other Hay Production	0	
5 Barley Production	0	
6 Agricultural Services	633	
7 Gold Mining	0	
# Other Mining	0	
9 Construction	18,403	
10 Manufacturing	25,658	
11 Transportation and Communications	34,105	
12 Utilities	19,812	
13 Trade	570,492	
14 Esting, Drinking, and Lodging	592,885	
15 Finance, Insurance, and Real Estate	39,346	
16 Services	116,271	
17 Hotels, Gaming, and Recreation	15,062	
18 Health	41,460	
19 Local Government	28,678	
20 Households	0	
Total	1,502,805	

Table 8.1-9. Population Response by Economic Sector.

Economic Sector	Population all persons
1 Livestock Production	0
2 Duiry Production	0
3 Alfalfa Hay Production	0
4 Other Hay Production	0
5 Barley Production	0
6 Agricultural Services	0
7 Gold Mining	0
Other Mining	0
9 Construction	1
10 Manufacturing	i
11 Transportation and Communications	2
12 Utilities	2
13 Trade	48
14 Esting, Drinking, and Lodging	60
15 Finance, Insurance, and Real Estate	5
16 Services	14
17 Hotels, Gaming, and Recreation	1
1# Health	5
19 Local Government	2
20 Households	0
Total	141

Table 8.1-10. Housing Response by Economic Sector.

	Economic Sector	Housing dwellings	
	1 Livestock Production	0	
	2 Dairy Production	0	
	3 Alfalfa Hay Production	•	
	4 Other Hay Production	0	
	5 Barley Production	0	
	6 Agricultural Services	0	
	7 Gold Mining	0	
	8 Other Mining	0	
	9 Construction	0	
	10 Menufacturing	1	
	11 Transportation and Communications	1	
	12 Utilities	1	
	13 Trade	19	
	14 Esting Drinking and Lodging	24	
	15 Finance, Insurance, and Real Estate	2	
	16 Services	5	
	17 Hotels, Gaming, and Recreation	1	
	18 Health	2	
5 63	19 Local Government	1	
ω	20 Households	0	
	Total	56	

Table 8.1-11. Agriculture Water Use Response by Economic Sector.

Economic Sector	Agriculture Water Use acre-fest
1 Livestock Production	
2 Dairy Production	
3 Alfalfa Hay Production	•
4 Other Hey Production	(
5 Barley Production	(
6 Agricultural Services	•
7 Gold Mining	•
8 Other Mining	•
9 Construction	(
10 Manufacturing	(
11 Transportation and Communications	(
12 Utilities	•
13 Trade	+
14 Esting, Drinking, and Lodging	(
15 Finance, Insurance, and Real Estate	
16 Services	(
17 Hotels, Geming, and Recreation	
18 Health	(
19 Local Government	
20 Houneholds	(
Total	

Table 8.1-12. Commercial Water Use Response by Economic Sector.

Economic Sector	Commercial Water Use acre-feet	Commercial Water Use gallons
1 Livestock Production	0	0
2 Dairy Production	0	0
3 Alfalfa Hay Production	0	0
4 Other Hey Production	0	0
5 Berley Production	0	0
6 Agricultural Services	0	597
7 Gold Mining	0	0
8 Other Mining	0	0
9 Construction	0	3,451
10 Manufacturing	0	10,510
11 Transportation and Communications	0	10,475
12 Utilities	0	73,685
13 Trade	1	356,700
14 Esting, Drinking, and Lodging	4	1,175,906
15 Finance, Insurance, and Real Estate	0	22,834
16 Services	0	155,328
17 Hotels, Geming, and Recreation	0	51,227
18 Health	0	78,985
19 Local Government	0	10,833
20 Households	0	0
Total	6	1,950,531

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Table 8.1-13. Residential Water Use Response by Economic Sector.

Economic Sector	Residential /1 Water Use acre-feet	Residential /1 Water Une gallons
1 Livestock Production	0	0
2 Dairy Production	0	0
3 Alfalfa Hay Production	0	0
4 Other Hey Production	0	0
5 Barley Production	0	0
6 Agricultural Services	0	4,845
7 Gold Mining	0	0
8 Other Mining	0	0
9 Construction	0	73,740
10 Manufacturing	0	101,904
11 Transportation and Communications	0	123,089
12 Utilities	0	120,173
13 Trude	11	3,669,959
14 Esting, Drinking, and Lodging	14	4,552,507
15 Finance, Insurance, and Real Estate	1	408,338
16 Services	3	1,055,622
17 Hotels, Gaming, and Recreation	0	107,290
18 Houlth	1	359,600
19 Local Government	1	175,482
20 Households	0	0
Total	33	10,752,548

^{1.} Residential water use is non-metered residential water use.

Summary

A summary is provided in Table 8.1-14. This summary includes average end of the month reservoir storage for the reservoirs, camping and day use visitors for the reservoirs, direct economic impact, total economic impact, employment response, income response, population response, housing response, agriculture water use response, commercial water use response, residential water use response, and a recreation expenditure multiplier.

Table 8.1-14. Summary.

Donner Lake Average End of the Month Reservoir Storage	6,743 acre-feet
Prosser Reservoir Average End of the Month Reservoir Storage	15,655 acre-feet
Stampede Reservoir Average End of the Month Reservoir Storage	146,104 acre-feet
Bocs Reservoir Average End of the Month Reservoir Storage	28,171 acre-feet
Donner Lake Comping and Day Use Visitors	333,345 visitors
Prosser Reservoir Camping and Day Use Visitors	52,200 visitors
Stampede Reservoir Camping and Day Use Visitors	284,515 visitors
Boce Reservoir Camping and Day Use Visitors	148,754 visitors
Direct Economic Impact	6,972,260 \$s of expenditure
Total Economic Impact	9,882,066 Ss of output
Employment Response	23 jobs
Income Response	1,502,805 Sa of income
Population Response	14E all persons
Housing Response	56 dwellings
Agriculture Water Use Response	0 acre-feet
Commercial Water Use Response	6 acre-feet
Residential Water Use Response /1	33 acre-feet
Recreation Expenditure Multiplier /2	1.41734047

^{1.} Residential water use is non-metered residential water use.

^{2.} Recreation expenditure multiplier is a ratio multiplier. The recreation expenditure multiplier is the total economic impact to direct economic impact.

Multiplier interpretation: a \$1 expenditure creates an additional \$.42 in economic activity.

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